



T1000/T1010 Series Windows®-based Terminal

Administrators Guide

Software Version 3.5

T1000/T1010 Series Windows®-based Terminal Administrators Guide

Software Version 3.5

February 2001

Copyright Notice

The information in this document is subject to change without notice.

COMPAQ COMPUTER CORPORATION SHALL NOT BE LIABLE FOR TECHNICAL OR EDITORIAL ERRORS OR OMISSIONS CONTAINED HEREIN; NOR FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE FURNISHING, PERFORMANCE, OR USE OF THIS MATERIAL.

This document contains information protected by copyright. No part of this document may be photocopied or reproduced in any form without prior written consent from Compaq Computer Corporation.

© 2000 Compaq Computer Corporation. All rights reserved. Created in the United States.

Trademarks

COMPAQ and the Compaq Logo are registered in the U.S. Patent and Trademark office.

ICA is a registered trademark and MetaFrame is a trademark of Citrix Systems Inc.

Microsoft, Windows, Windows CE, Windows NT, and Windows Terminal Server are registered trademarks of Microsoft Corporation.

Product names mentioned herein may be trademarks and/or registered trademarks of their respective companies.

The Energy Star emblem does not represent endorsement of any product or service.

Specifications subject to change without notice.

Patents

The product(s) described herein is(are) covered by U.S. Patent No. 5,918,039 and other patents pending.

Restricted Rights Legend

Use, duplication, or disclosure by the Government is subject to restrictions as set forth in subparagraph (c)(1)(ii) of the Rights in Technical Data and Computer Software clause at DFARS 252.227-7013.

EULA for Microsoft® Windows® CE Operating System for Windows-based Terminal Devices

IMPORTANT—READ CAREFULLY

This End User License Agreement (EULA) is a legal agreement between you (either an individual or a single entity) and the manufacturer (MANUFACTURER) of the special purpose computing device (SYSTEM) you acquired which includes certain Microsoft software product(s) installed on the SYSTEM and/or included in the SYSTEM package (SOFTWARE). The SOFTWARE includes computer software, the associated media, any printed materials, and any online or electronic documentation. By installing, copying or otherwise using the SOFTWARE, you agree to be bound by the terms of this EULA. If you do not agree to the terms of this EULA, MANUFACTURER and Microsoft Licensing, Inc. (MS) are unwilling to license the SOFTWARE to you. In such event, you may not use or copy the SOFTWARE, and you should promptly contact MANUFACTURER for instructions on return of the unused product(s) for a refund.

Software License

The SOFTWARE is protected by copyright laws and international copyright treaties, as well as other intellectual property laws and treaties. The SOFTWARE is licensed, not sold.

1. Grant of License

SOFTWARE includes software already installed on the SYSTEM (SYSTEM SOFTWARE) and, if included in the SYSTEM package, software contained on the CD-ROM disk and/or floppy disk(s) labeled "Desktop Software for Microsoft Windows CE" (DESKTOP SOFTWARE). This EULA grants you the following rights to the SOFTWARE:

- **SYSTEM SOFTWARE**

You may use the SYSTEM SOFTWARE only as installed in the SYSTEM.

- **DESKTOP SOFTWARE**

DESKTOP SOFTWARE might not be included with your SYSTEM. If DESKTOP SOFTWARE is included with your SYSTEM, you may install and use the component(s) of the DESKTOP SOFTWARE in accordance with the terms of the end user license agreement provided with such component(s). In the absence of a separate end user license agreement for particular component(s) of the DESKTOP SOFTWARE, you may install and use only one (1) copy of such component(s) on a single computer with which you use the SYSTEM.

- **Use of Windows CE Operating System for Windows-based Terminal Devices with Microsoft Windows NT Server, Terminal Server Edition**

If the SOFTWARE is Windows CE operating system for Windows-based Terminal devices, the following special provisions apply. In order to use the SYSTEM in connection with Windows NT Server, Terminal Server Edition, you must possess (1) a Client Access License for Windows NT Server, Terminal Server Edition and (2) an end user license for Windows NT Workstation or an end user license agreement for Windows NT Workstation for Windows-based Terminal Devices (please refer to the end user license agreement for Windows NT Server, Terminal Server Edition for additional information).

MANUFACTURER may have included a Certificate of Authenticity for Windows NT Workstation for Windows-based Terminal Devices with the SYSTEM. In that case, this EULA constitutes an end user license for the version of Windows NT Workstation for Windows-based Terminal Devices indicated on such Certificate of Authenticity.

- **Back-up Copy**

If MANUFACTURER has not included a back-up copy of the SYSTEM SOFTWARE with the SYSTEM, you may make a single back-up copy of the SYSTEM SOFTWARE. You may use the back-up copy solely for archival purposes.

2. Description of Other Rights and Limitations

- **Speech/Handwriting Recognition**

If the SYSTEM SOFTWARE includes speech and/or handwriting recognition component(s), you should understand that speech and handwriting recognition are inherently statistical processes; that recognition errors are inherent in the processes; that it is your responsibility to provide for handling such errors and to monitor the recognition processes and correct any errors. Neither MANUFACTURER nor its suppliers shall be liable for any damages arising out of errors in the speech and handwriting recognition processes.

- **Limitations on Reverse Engineering, Decompilation and Disassembly**

You may not reverse engineer, decompile, or disassemble the SYSTEM SOFTWARE, except and only to the extent that such activity is expressly permitted by applicable law notwithstanding this limitation.

- **Single SYSTEM**

The SYSTEM SOFTWARE is licensed with the SYSTEM as a single integrated product. The SYSTEM SOFTWARE installed in Read Only Memory (ROM) of the SYSTEM may only be used as part of the SYSTEM.

- **Single EULA**

The package for the SYSTEM SOFTWARE may contain multiple versions of this EULA, such as multiple translations and/or multiple media versions (e.g., in the user documentation and in the software). Even if you receive multiple versions of the EULA, you are licensed to use only one (1) copy of the SYSTEM SOFTWARE.

- **Rental**

You may not rent or lease the SOFTWARE.

- **Software Transfer**

You may permanently transfer all of your rights under this EULA only as part of a sale or transfer of the SYSTEM, provided you retain no copies, you transfer all of the SOFTWARE (including all component parts, the media, any upgrades or backup copies, this EULA and, if applicable, the Certificate(s) of Authenticity), and the recipient agrees to the terms of this EULA. If the SOFTWARE is an upgrade, any transfer must include all prior versions of the SOFTWARE.

- **Termination**

Without prejudice to any other rights, MANUFACTURER or MS may terminate this EULA if you fail to comply with the terms and conditions of this EULA. In such event, you must destroy all copies of the SOFTWARE and all of its component parts.

3. Upgrades

If the SYSTEM SOFTWARE and this EULA are provided separate from the SYSTEM by MANUFACTURER and the SYSTEM SOFTWARE is on a ROM chip, CD ROM disk(s) or floppy disk(s), and labeled "For ROM Upgrade Purposes Only" ("ROM Upgrade"), you may install one copy of the ROM Upgrade onto the SYSTEM as a replacement copy for the SYSTEM SOFTWARE originally installed on the SYSTEM and use it in accordance with Section 1 of this EULA.

4. Copyright

All title and copyrights in and to the SOFTWARE (including but not limited to any images, photographs, animations, video, audio, music, text and "applets," incorporated into the SOFTWARE), the accompanying printed materials, and any copies of the SOFTWARE, are owned by MS or its suppliers (including Microsoft Corporation). You may not copy the printed materials accompanying the SOFTWARE. All rights not specifically granted under this EULA are reserved by MS and its suppliers (including Microsoft Corporation).

5. Product Support

Product support for the SOFTWARE is not provided by MS, its parent corporation, Microsoft Corporation, or their affiliates or subsidiaries. For product support, please refer to MANUFACTURER's support number provided in the documentation for the SYSTEM. Should you have any questions concerning this EULA, or if you desire to contact MANUFACTURER for any other reason, please refer to the address provided in the documentation for the SYSTEM.

6. Export Restrictions

You agree that you will not export or re-export the SOFTWARE to any country, person, or entity subject to U.S. export restrictions. You specifically agree not to export or re-export the SOFTWARE: (i) to any country to which the U.S. has embargoed or restricted the export of goods or services, which as of March 1998 include, but are not necessarily limited to Cuba, Iran, Iraq, Libya, North Korea, Sudan and Syria, or to any national of any such country, wherever located, who intends to transmit or transport the products back to such country; (ii) to any person or entity who you know or have reason to know will utilize the SOFTWARE or portion thereof in the design, development or production of nuclear, chemical or biological weapons; or (iii) to any person or entity who has been prohibited from participating in U.S. export transactions by any federal agency of the U.S. government.

If the SOFTWARE is labeled "North America Only Version" above, on the Product Identification Card, or on the SOFTWARE packaging or other written materials, then the following applies: The SOFTWARE is intended for distribution only in the United States, its territories and possessions (including Puerto Rico, Guam, and U.S. Virgin Islands) and Canada. Export of the SOFTWARE from the United States is regulated under "EI controls" of the Export Administration Regulations (EAR, 15 CFR 730-744) of the U.S. Commerce Department, Bureau of Export Administration (BXA). A license is required to export the SOFTWARE outside the United States or Canada. You agree that you will not directly or indirectly, export or re-export the SOFTWARE (or portions thereof) to any country, other than Canada, or to any person or entity subject to U.S. export restrictions without first obtaining a Commerce Department export license. You warrant and represent that neither the BXA nor any other U.S. federal agency has suspended, revoked or denied your export privileges.

7. Note on Java Support

The SYSTEM SOFTWARE may contain support for programs written in Java. Java technology is not fault tolerant and is not designed, manufactured, or intended for use or resale as on-line control equipment in hazardous environments requiring fail-safe performance, such as in the operation of nuclear facilities, aircraft navigation or communication systems, air traffic control, direct life support machines, or weapons systems, in which the failure of Java technology could lead directly to death, personal injury, or severe physical or environmental damage.

8. Limited Warranty

- **Limited Warranty**

MANUFACTURER warrants that the SOFTWARE will perform substantially in accordance with the accompanying written materials for a period of ninety (90) days from the date of receipt. Any implied warranties on the SOFTWARE are limited to ninety (90) days. Some states/jurisdictions do not allow limitations on duration of an implied warranty, so the above limitation may not apply to you.

- **Customer Remedies**

MANUFACTURER'S and its suppliers' entire liability and your exclusive remedy shall be, at MANUFACTURER'S option, either (a) return of the price paid, or (b) repair or replacement of the SOFTWARE that does not meet the above Limited Warranty and which is returned to MANUFACTURER with a copy of your receipt. This Limited Warranty is void if failure of the SOFTWARE has resulted from accident, abuse, or misapplication. Any replacement SOFTWARE will be warranted for the remainder of the original warranty period or thirty (30) days, whichever is longer.

- **No Other Warranties**

EXCEPT AS EXPRESSLY PROVIDED IN THE LIMITED WARRANTY SECTION ABOVE, THE SOFTWARE IS PROVIDED TO THE END USER "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY, AND/OR FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK OF THE QUALITY AND PERFORMANCE OF THE SOFTWARE IS WITH YOU.

- **No Liability for Consequential Damages**

MANUFACTURER OR MANUFACTURER'S SUPPLIERS, INCLUDING MS AND ITS SUPPLIERS, SHALL NOT BE HELD TO ANY LIABILITY FOR ANY DAMAGES SUFFERED OR INCURRED BY THE END USER (INCLUDING, BUT NOT LIMITED TO, GENERAL, SPECIAL, CONSEQUENTIAL OR INCIDENTAL DAMAGES INCLUDING DAMAGES FOR LOSS OF BUSINESS PROFITS, BUSINESS INTERRUPTION, LOSS OF BUSINESS INFORMATION AND THE LIKE), ARISING FROM OR IN CONNECTION WITH THE DELIVERY, USE OR PERFORMANCE OF THE SOFTWARE.

If you acquired this EULA in the United States, this EULA is governed by the laws of the State of Washington.

If you acquired this EULA in Canada, this EULA is governed by the laws of the Province of Ontario, Canada. Each of the parties hereto irrevocably attorns to the jurisdiction of the courts of the Province of Ontario and further agrees to commence any litigation which may arise hereunder in the courts located in the Judicial District of York, Province of Ontario.

x

If this EULA was acquired outside the United States, then local law may apply.

Should you have any questions concerning this EULA, please contact the MANUFACTURER of your SYSTEM.

U.S. GOVERNMENT RESTRICTED RIGHTS

The SOFTWARE and documentation are provided with RESTRICTED RIGHTS. Use, duplication, or disclosure by the Government is subject to restrictions as set forth in subparagraph (c)(1)(ii) of the Rights in Technical Data and Computer Software clause at DFARS 252.227-7013 or subparagraphs (c)(1) and (2) of the Commercial Computer Software—Restricted Rights at 48 CFR 52.227-19, as applicable. MANUFACTURER is Microsoft Corporation/One Microsoft Way/Redmond, WA 98052-6399.

FCC Statement

This equipment has been tested and found to comply with the limits for either Class A or Class B digital devices (refer to “Terminal Requirements Compliance”), pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.



Caution

Changes or modifications not covered in this manual must be approved in writing by the manufacturer's Regulatory Engineering department. Changes or modifications made without written approval may void the user's authority to operate the equipment.

Terminal Requirements Compliance

FCC Compliance

Models T1000 and T1010 terminals meet Class B requirements.

IEC/EN Compliance

Models T1000 and T1010 terminals meet Class B requirements.

Canadian DOC Notices

Refer to the previous section, “Terminal Requirements Compliance,” to find out to which terminal model each of the statements below refers.

Class A

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe A prescrites dans le Règlement sur le brouillage radioélectrique édicté par le Ministère des Communications du Canada.

Class B

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe B prescrites dans le Règlement sur le brouillage radioélectrique édicté par le Ministère des Communications du Canada.

IEC/EN Notice

This product conforms to the requirements of IEC950 and EN60950.

This product conforms to requirements of EN55022 for Class A equipment or EN55022 for Class B equipment (refer to "Terminal Requirements Compliance").

T10x0 Series Windows-based Terminals

For use with External Power Supply DVE Model DSA-0301-05 or Potrans Model UP01811050A or certified equivalent model supplied by the manufacturer, rated minimum 5V/4A.

Noise Suppressor

A noise suppressor (ferrite bead) must be installed on the network cable of your terminal. This installation is necessary to maintain compliance with U.S. FCC B limits and European CISPR B EN55022 Class B limits. The noise suppressor is supplied by the manufacturer and is packed in your terminal's shipping carton.

Cable Notice

The use of shielded I/O cables is required when connecting this equipment to any and all optional peripheral or host devices. Failure to do so may cause interference and violate FCC and international regulations for electromagnetic interference.

License Agreement

YOU SHOULD CAREFULLY READ THE FOLLOWING TERMS AND CONDITIONS BEFORE USING THIS SOFTWARE (TOGETHER WITH ANY SUPPLIED DOCUMENTATION, HEREAFTER "SOFTWARE"), WHICH IS OWNED BY THE MANUFACTURER OR ITS LICENSORS. USING THIS SOFTWARE INDICATES YOUR ACCEPTANCE OF THE FOLLOWING TERMS AND CONDITIONS. THE MANUFACTURER'S LICENSORS ARE INTENDED THIRD-PARTY BENEFICIARIES UNDER THIS AGREEMENT.

Grant

You may use the Software in or in conjunction with Your manufacturer-produced hardware (Terminal). You have the right to use this Software by loading it onto a computer containing the capability of transferring the Software (in whole or in part) to the manufacturer-produced hardware. You may use the Software in this fashion as many times as necessary, so long as such use is always in conjunction with the manufacturer-produced Terminal. You may transfer ownership of the Terminal and equipment, including the right to use the Software to another party so long as that party agrees to accept these terms and conditions.

YOU MAY NOT USE, COPY, MODIFY, TRANSLATE OR TRANSFER THE SOFTWARE, OR MODIFICATION THEREOF, IN WHOLE OR IN PART, EXCEPT AS EXPRESSLY PROVIDED FOR IN THIS LICENSE. YOU MAY NOT DECOMPILE, REVERSE ENGINEER OR OTHERWISE DECODE OR ALTER THE SOFTWARE.

Disclaimer of Warranty

This Software is provided, "AS IS", and is delivered with no warranties, either express or implied.

MANUFACTURER MAKES AND YOU RECEIVE NO WARRANTIES ON THE FIRMWARE, EXPRESS, IMPLIED, OR STATUTORY, OR IN ANY OTHER PROVISION OF THIS AGREEMENT OR COMMUNICATION WITH YOU, AND MANUFACTURER DISCLAIMS ANY IMPLIED WARRANTIES OF MERCHANTABILITY, NON-INFRINGEMENT AND FITNESS FOR ANY PARTICULAR PURPOSE. MANUFACTURER DOES NOT WARRANT THAT THE FUNCTIONS CONTAINED IN THE PRODUCT WILL MEET YOUR REQUIREMENTS OR THAT THE OPERATION WILL BE UNINTERRUPTED OR ERROR FREE.

SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS. YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

Limit of Liability

UNDER NO CIRCUMSTANCES SHALL MANUFACTURER BE LIABLE FOR LOSS OF DATA, COST OF COVER, OR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES, HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY. THESE LIMITATIONS SHALL APPLY EVEN IF MANUFACTURER OR ITS RESELLER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, AND NOTWITHSTANDING ANY FAILURE OF ESSENTIAL PURPOSE OF ANY LIMITED REMEDY PROVIDED HEREIN.

YOU AGREE THAT THESE ARE THE ONLY APPLICABLE TERMS OF AGREEMENT BETWEEN US COVERING SOFTWARE AND THAT THEY SUPERSEDE ANY OTHER COMMUNICATIONS (ORAL OR WRITTEN) BETWEEN US RELATING TO THE SOFTWARE.

Export Restrictions

You agree You will not export or transmit the Software to any country to which export is restricted by applicable US law or regulation without the written approval of the appropriate US Government organization.

U.S. Government Restricted Rights

The Software is provided with RESTRICTED RIGHTS. Use, duplication or disclosure by the Government is subject to restrictions as set forth in subparagraph (c)(1)(ii) of the Rights in Technological Data and computer software clause at DFARS 252.227-7013 or in subparagraphs (c)(1) and (2) of the Commercial Computer Software-Restricted Rights at 8 C.F.R. 52-227-19 as applicable.

Contents

Patents *iii*

About the Administrators Guide

Guide Overview *xxv*

Guide Conventions *xxvi*

Text Format *xxvi*

User Interface Menu Control *xxvii*

Terminal Installation

1 Model T1000 Terminal Installation

Locating the Terminal 3

Connecting the Terminal 3

Mounting the Terminal 7

Freestanding Desktop Mounting 7

Turning On the Terminal 8

2 Model T1010 Terminal Installation

Locating the Terminal 9

Connecting the Terminal 9

Mounting the Terminal 13

Freestanding Desktop Mounting 13

Turning On the Terminal 14

Advanced User Interface

3 Initial Terminal Setup

Using the Setup Wizard 17

4 Changing Terminal Properties

Using the Terminal Properties Dialog Box 39

Resetting to Factory Defaults 40

Terminal Settings Change Dialog Box 41

5 Network Configuration

Using the Network Properties Sheet 43

6 Web Browser

Using the Web Properties Sheet 47

7 Additional Terminal Applications

Using the Apps Properties Sheet 51

8 ICA Client Settings

Using the Global ICA Client Settings Dialog Box 56

Setting the Default Hotkeys 56

Setting Terminal Preferences 57

Setting the Server Location 59

Setting Up a SOCKS Firewall 61

Setting Up a PNLite 63

Connection Configuration

9 Creating New Connections

Using the New Connection Dialog Box 67

Choosing a Connection Protocol 68

Using the Startup Function 69

10 ICA Connections

Using the ICA Connections Wizard 71

Network Connections 72

Dial-In Connection 79

11 Dial-Up Connections

Using the Dial-Up Configuration Wizard 81

12 Dial-Up Dialing Properties and Configuration

Using the Dialing Properties Dialog Box 87

- Using the Device Properties Dialog Box 90
 - Port Settings 91
 - Call Options 92
- 13 Dial-Up TCP/IP Settings and Security**
 - Using the TCP/IP Settings Dialog Box 93
 - Using the Security Settings Dialog Box 94
- 14 Dial-Up Scripts**
 - Using the Dial-Up Scripts Dialog Boxes 97
- 15 RDP Connections**
 - Using the WTS Connection Wizard 101
- 16 Terminal Emulation Connections**
 - Using the TE Client Connection Wizard 107
- 17 TCP/IP Telnet Configuration**
 - Using the TCP/IP Telnet Configuration Dialog Box 117
 - Using the Modem Settings Dialog Box 121
 - Using the Configuration of Serial Cable on Com1 (or Com2) Dialog Box 122
- 18 Internet Explorer Connections**
- 19 Editing ICA Connections**
 - Using the Edit Connection Details Dialog Box 128
 - Using the Server Properties Sheet 128
 - Using the Application Properties Sheet 130
 - Using the Logon Properties Sheet 131
 - Using the Window Properties Sheet 132
 - Using the Options Properties Sheet 134
 - Using the Title Properties Sheet 136
 - Using the Firewall Settings Properties Sheet 137
- 20 Editing RDP, Dial-Up, and Terminal Emulation Connections**
 - Dial-Up and Terminal Emulation Connections 139
 - RDP Connections 139
 - Using the Edit Connection Dialog Box 140

| | |
|--|-----|
| Using the Net Connections Properties Sheet | 141 |
| Using the Application Properties Sheet | 142 |

External Devices

| | | |
|-----------|---|-----|
| 21 | Devices Properties | |
| | Devices Properties Sheet | 147 |
| 22 | Managing Network Adapters | |
| | Using the Adapters Configuration Dialog Box | 152 |
| | IP Address Properties Sheet | 153 |
| | Name Server Properties Sheet | 154 |
| 23 | Add-On | |
| | Add-on Dialog Box Uninstall Tab | 155 |
| | Add-on Dialog Box System Tab | 157 |
| 24 | Aironet Wireless LAN Adapter Setup | |
| | Using the Aironet Dialog Box | 160 |
| 25 | PC Card Adapters for Modems | |
| | ISDN Settings | 163 |
| 26 | Touchscreens | |
| | ELO Touchscreen | 165 |
| | MicroTouch Touchscreen | 167 |
| | Hardware Properties Sheet | 168 |
| | Cursor Properties Sheet | 169 |
| | Touch Settings Properties Sheet | 171 |
| | Calibrate Properties Sheet | 172 |
| 27 | Date/Time Properties | |
| 28 | JETCET PRINT | |
| 29 | Local Printers | |
| | LPD Printing | 181 |
| | Using the LPD Config Dialog Box | 182 |
| | RDP Printing | 182 |
| | Printers Properties Sheet | 182 |
| | Using the Printer Properties Dialog Box | 185 |

- 30 PC Card Adapters for Token Ring Networks**
Using the RACORE - Token Ring Adapter Settings Dialog Box 187
- 31 SNTP Client**
Using the SNTP Client Dialog Box 189
- 32 PC Card Adapters for Wireless Networks**
Using the WaveLAN/IEEE Settings Dialog Box 191
 - Basic Properties Sheet 191
 - Advanced Properties 193
 - Power Management 195
 - Encryption 196
- 33 Volume Properties**
Using the Volume Properties Dialog Box 198

Firmware Upgrades

- 34 Cable Firmware Upgrades**
Setup 202
Parallel Flash Download Procedure 202
 - Manual Download 203
Cable Pinouts 204
 - Parallel Download Cable Pinouts 204
- 35 FTP Pull Firmware Upgrades**
Using the Upgrade Properties Sheet 207
 - FTP and Params.ini 210
The Upgrade Process 210
- 36 SNMP Firmware Upgrades**
Using the SNMP Network Administration Dialog Box 213
The Upgrade Process 216
- 37 DHCP Firmware Upgrades**
Using the Change DHCP Option IDs Dialog Box 219
The Upgrade Process 222
Manual DHCP Firmware Upgrades 223

Client Security

- 38 Security Properties**
 - Using the Security Properties Sheet 227
- 39 Terminal Accounts**
 - Guest Accounts 233
 - User Accounts 234
 - Administrator Accounts 234
 - Using Terminal Accounts 234
- 40 Creating Terminal Accounts**
 - Using the Add User Account Dialog Box 237
- 41 Modifying and Deleting Terminal Accounts**
 - Using the Modify User Account Dialog Box 243
 - Deleting Terminal Accounts 248
- 42 Terminal Login**
 - Logging Into the Terminal 249
 - Autologin and Autoconnect 250
 - Autologin 250
 - AutoStart 250
 - Single Button Connect 251
- 43 Failover**

Getting Help

- 44 Windows-based Terminal Specifications**
- 45 How to...**
- 46 Terminal Port Pin Assignments**
- 47 Terminal Connector Pin Assignments**
- 48 Null Modem Cable Pin Assignments**
- 49 Modem AT Commands**
- A SNMP Remote Configuration Chart**

B NFuse Server Configuration Requirements

Introduction 303

PNLite Access 303

Browser-Based Access 303

Glossary 305

About the Administrators Guide

The *T1000/T1010 Series Windows-based Terminal Administrators Guide* contains the information you will need to install, configure, connect, and troubleshoot a WBT (Windows-based Terminal). This guide is written for network system administrators and covers the Models T1000 and T1010 terminals.

Guide Overview

The administrators guide consists of the following chapters:

- Terminal Installation
- Advanced User Interface
- Connection Configuration
- External Devices
- Firmware Upgrades
- Client Security
- Getting Help

This guide contains information about:



- Terminal specifications and installations
- The WBT user interface
- Physical and network connections, and protocols supported
- Firmware upgrades
- Terminal security
- Getting help

Guide Conventions

Text Format

Table 1 lists the text format conventions used in this document.

Table 1 Text Format Conventions

| Convention | Where Used |
|--|--|
| <i>Italic</i> | New term, book title, or emphasis. |
| Bold | Screen display, keycaps, and user input. |
|  Note | This convention indicates a note. A note adds information. |
|  Caution | This convention indicates a caution. A caution indicates actions that may cause damage to equipment, erase files, or destroy data. |
| + | Keystroke sequences such as: Ctrl+Alt+Del |
| | Instructions about invoking a menu such as: Network SNMP Network Location |

User Interface Menu Control

Table 2 describes the command buttons used for user interface menu control on a T1000/T1010 WBT.

Table 2 User Interface Menu Control

| Command Button | Function |
|-----------------------|---|
| X | Found in the upper right corner of a dialog box. Click on this command button to quit a dialog box or properties sheet without saving changes. |
| OK | Found in dialog boxes and on properties sheets. Click on this command button to save your changes and quit a dialog box or properties sheet. |
| Cancel | Found in dialog boxes and on properties sheets. Click on this command button at any time to quit a dialog box or properties sheet without saving changes. |
| Apply | Found in dialog boxes and on properties sheets. Click on this command button to save changes without quitting a dialog box or properties sheet. |
| Next or Accept | Found in wizards. Click on these command buttons to display the next dialog box in the sequence. |
| Back | Found in wizards. Click on this command button to return to the previous dialog box. |
| Finish | Found in wizards. Click on this command button to finish the wizard. |

Terminal Installation

- 1 Model T1000 Terminal Installation**
- 2 Model T1010 Terminal Installation**

1

Model T1000 Terminal Installation

This section discusses the procedures for installing the T1000 terminal.



Note

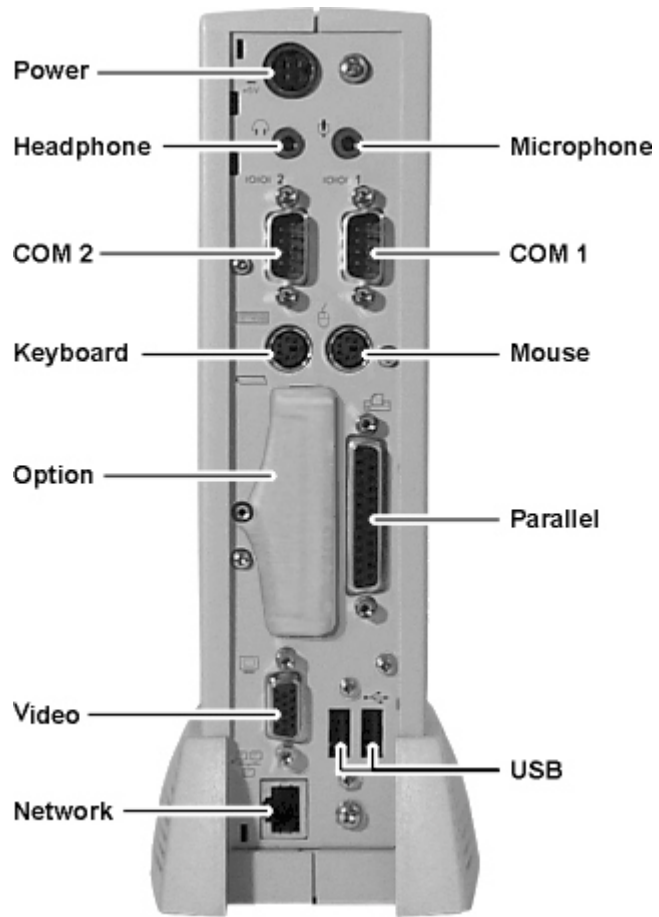
A keyboard and AC power cord are supplied with U.S. models only.

Locating the Terminal

Position the terminal on a clean, horizontal surface that is free from vibration and out of direct sunlight. Refer to “Windows-based Terminal Specifications” for environmental specifications.

Connecting the Terminal

Make all connections to the back panel before connecting the terminal to power. Figure 1-1 shows a terminal's back panel connectors.

Figure 1-1 T1000 Terminal Back Panel Connectors

The following table summarizes the back panel connectors' functions.

Table 1-1 T1000 Terminal Back Panel Connectors

| Connector | Description |
|-------------------|---|
| Network Connector | LAN connector, 10/100Base-T |
| Com1 | Serial port 1. Can be connected to: <ul style="list-style-type: none">• External modem.• Local server.• Local serial printer.• Touch-screen monitor. |
| Com2 | Serial port 2. Can be connected to: <ul style="list-style-type: none">• External modem.• Local server.• Local serial printer.• Touch-screen monitor. |
| Parallel Port | Local printer output |
| Video | Monitor interface |
| Keyboard | Keyboard interface |
| Mouse | PS-2 mouse interface |
| USB | Keyboard and mouse. |
| Power | Power module cable interface |
| Option Slot | PCMCIA card slot |
| Headphone | Audio output for headphones or powered speakers |
| Microphone | Audio input for microphones (currently not supported) |

Proceed as follows to connect the terminal. (If necessary, remove the desktop mounting stand (one Phillips-head screw on the bottom.)

**Note**

Before connecting the cables, decide which mounting configuration will be used and ensure that the cables are of the correct lengths. If permanent desktop configuration is to be used, drill the desktop mounting holes before connecting the cables.

1. Connect the monitor to the Video connector.
2. Connect the keyboard to the Keyboard connector.
3. Connect the mouse to the Mouse connector.
4. If you will be using a network connection, connect a 10Base-T or 100Base-T network cable to the Network connector. Be sure to install the supplied noise suppressor on the cable.
5. Depending on your configuration needs, connect a printer to the parallel port, and/or connect a modem/server serial cable to the serial ports, as appropriate.
6. Connect the power supply output cable to the Power connector.

**Caution**

Do not force a connector into its socket. If any undue resistance is encountered, ensure that the connector is oriented correctly to the socket.

7. Plug the AC cord into the power supply, then into an AC outlet.
8. After the cables are connected, install the terminal in its planned location (see the next section "Mounting the Terminal").

Mounting the Terminal

Instructions for mounting your terminal are provided in the following paragraphs.

Freestanding Desktop Mounting

The terminal is shipped with a desktop mounting stand attached so it can immediately be put into desktop operation. The mounting stand is weighted and equipped with non-skid feet. A single screw attaches the mounting stand to the terminal housing. The following figure shows the terminal mounted on the desktop mounting stand.

Figure 1-2 T1000 Freestanding Desktop Mounting



Turning On the Terminal

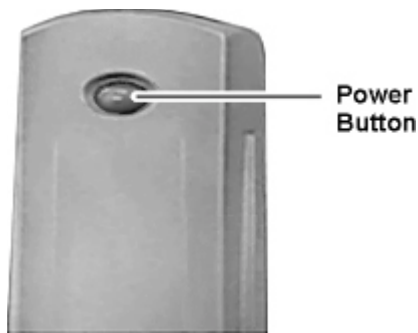
Once the terminal is installed and all back panel connections have been made, power it up. It is powered-up and operating when the power supply is connected to AC power; to toggle the display off or on, press and release the power button.

**Note**

If the button is continuously depressed for 3-5 seconds, the unit will perform a hard boot.

See the following figure for the location of the power button.

Figure 1-3 T1000 Power Button



The splash screen will appear, followed by:

- The **Setup Wizard**, if it is the first time that you have turned on your terminal.
- The **Connection Manager** dialog box, if the **Setup Wizard** has been completed.

Adjustments to the display can be made at any time, whether or not the terminal is connected to a server. See “Changing Terminal Properties” for more information.

2

Model T1010 Terminal Installation

This section discusses the procedures for installing the T1010 terminal. The following sections describe how to connect and set up the terminals.



Note

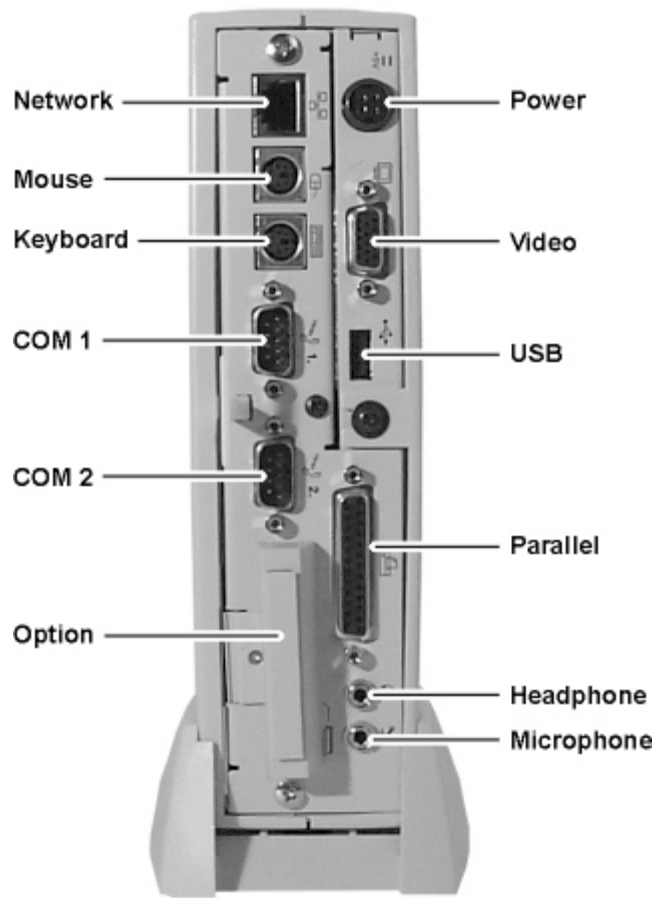
A keyboard and AC power cord are supplied with U.S. models only.

Locating the Terminal

Position the terminal on a clean, horizontal surface that is free from vibration and out of direct sunlight. Refer to “Windows-based Terminal Specifications” for environmental specifications.

Connecting the Terminal

Make all connections to the back panel before connecting the terminal to power. Figure 2-1 shows a terminal’s back panel connectors.

Figure 2-1 T1010 Terminal Back Panel Connectors

The following table summarizes the back panel connectors' functions.

Table 2-1 T1010 Terminal Back Panel Connectors

| Connector | Description |
|-------------------|---|
| Network Connector | LAN connector, 10/100Base-T |
| Com1 | Serial port 1. Can be connected to: <ul style="list-style-type: none">• External modem.• Local server.• Local serial printer.• Touch-screen monitor. |
| Com2 | Serial port 2. Can be connected to: <ul style="list-style-type: none">• External modem.• Local server.• Local serial printer.• Touch-screen monitor. |
| Parallel Port | Local printer output |
| Video | Monitor interface |
| Keyboard | Keyboard interface |
| Mouse | PS-2 mouse interface |
| USB | USB interface |
| Power | Power module cable interface |
| Option Slot | PCMCIA card slot |
| Headphone | Audio output for headphones or powered speakers |
| Microphone | Audio input for microphones (currently not supported) |

Proceed as follows to connect the terminal. (If necessary, remove the desktop mounting stand (one Phillips-head screw on the bottom.)

**Note**

Before connecting the cables ensure that the cables are of the correct lengths. If permanent desktop is to be used, drill the desktop mounting holes before connecting the cables.

1. Connect the monitor to the Video connector.
2. Connect the keyboard to the Keyboard connector.
3. Connect the mouse to the Mouse connector.
4. If you will be using a network connection, connect a 10Base-T or 100Base-T network cable to the Network connector. Be sure to install the supplied noise suppressor on the cable.
5. Depending on your configuration needs, connect a printer to the parallel port, and/or connect a modem/server serial cable to the serial ports, as appropriate.
6. Connect the power supply output cable to the Power connector.

**Caution**

Do not force a connector into its socket. If any undue resistance is encountered, ensure that the connector is oriented correctly to the socket.

7. Plug the AC cord into the power supply, then into an AC outlet.
8. After the cables are connected, install the terminal in its planned location (see the next section "Mounting the Terminal").

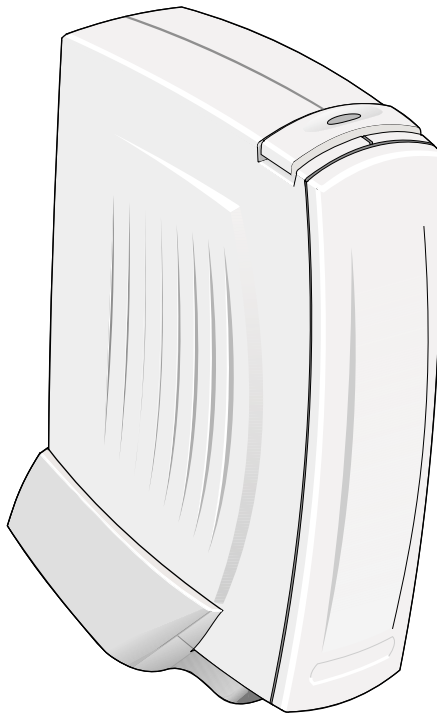
Mounting the Terminal

Instructions for mounting your terminal are provided in the following paragraphs.

Freestanding Desktop Mounting

The terminal is shipped with a desktop mounting stand attached so it can immediately be put into desktop operation. The mounting stand is weighted and equipped with non-skid feet. A single screw attaches the mounting stand to the terminal housing. The following figure shows the terminal mounted on the desktop mounting stand.

Figure 2-2 T1010 Freestanding Desktop Mounting



Turning On the Terminal

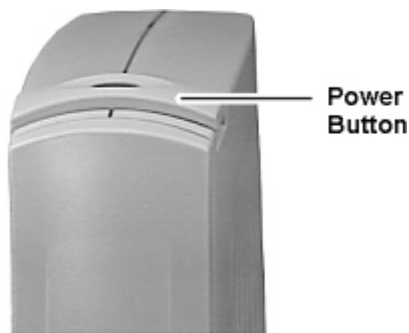
Once the terminal is installed and all back panel connections have been made, power it up. It is powered-up and operating when the power supply is connected to AC power; to toggle the display off or on, press and release the power button.

**Note**

If the button is continuously depressed for 3-5 seconds, the unit will perform a hard boot.

See the following figure for the location of the power button.

Figure 2-3 T1010 Power Button



The splash screen will appear, followed by:

- The **Setup Wizard**, if it is the first time that you have turned on your terminal.
- The **Connection Manager** dialog box, if the **Setup Wizard** has been completed.

Adjustments to the display can be made at any time, whether or not the terminal is connected to a server. See “Changing Terminal Properties” for more information.

Advanced User Interface

- 8 Initial Terminal Setup**
- 9 Changing Terminal Properties**
- 10 Network Configuration**
- 11 Web Browser**
- 12 Additional Terminal Applications**
- 13 ICA Client Settings**

3

Initial Terminal Setup

The **Setup Wizard** is used for initial setup of the terminal's properties. The wizard runs when:

- You power-up your terminal for the first time.
- An image has been downloaded to your terminal that is *older* than the image currently in use.
- You use the **Reset the Terminal to Factory-Default Property Settings** function on the **General** properties sheet, or you reset the terminal using a hot-key procedure under direction of the factory.

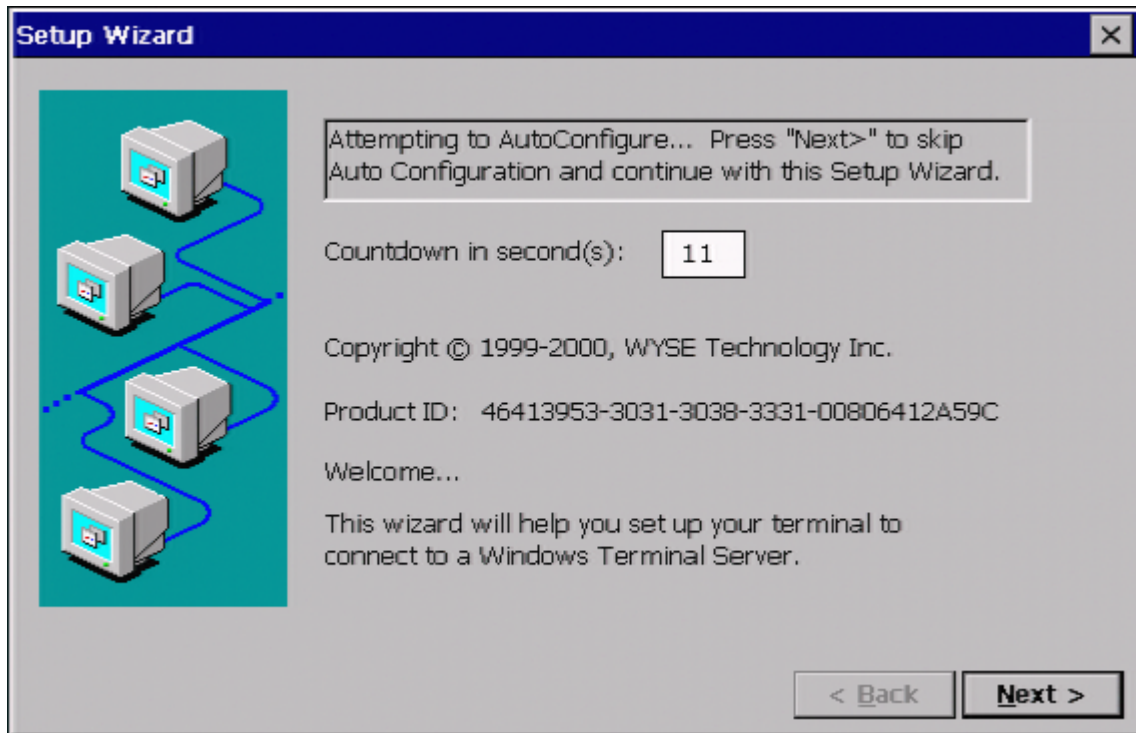
Using the Setup Wizard

The **Setup Wizard** lets you set terminal network configuration and terminal display parameters. Several dialog boxes display in succession during the process. Each dialog box is self-explanatory. Some dialog boxes are informational and require no user input. Other dialog boxes prompt you for network, printer, and display information. See Figure 3-1 to view the **Welcome/Countdown** dialog box, which is the first dialog box of the wizard.



Note

Any future changes to settings that were made using the wizard can be made using the **Terminal Properties** dialog box. Launch this dialog box from the **Connection Manager** by pressing the **F2** key. See "Changing Terminal Properties."

Figure 3-1 Welcome/Countdown Dialog Box

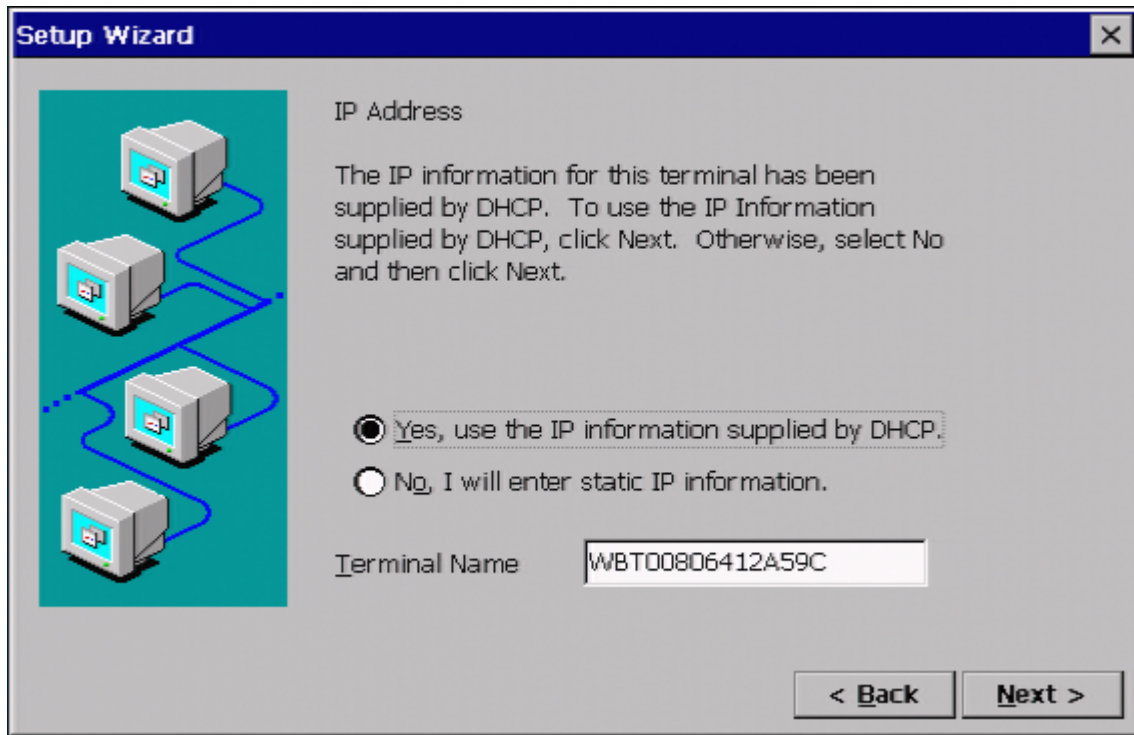
The **Welcome/Countdown** dialog box provides product information and a countdown.

- Click on **Next** during the countdown before it reaches zero to continue with the wizard.

Or

- Let the count go to zero to auto-configure the terminal.

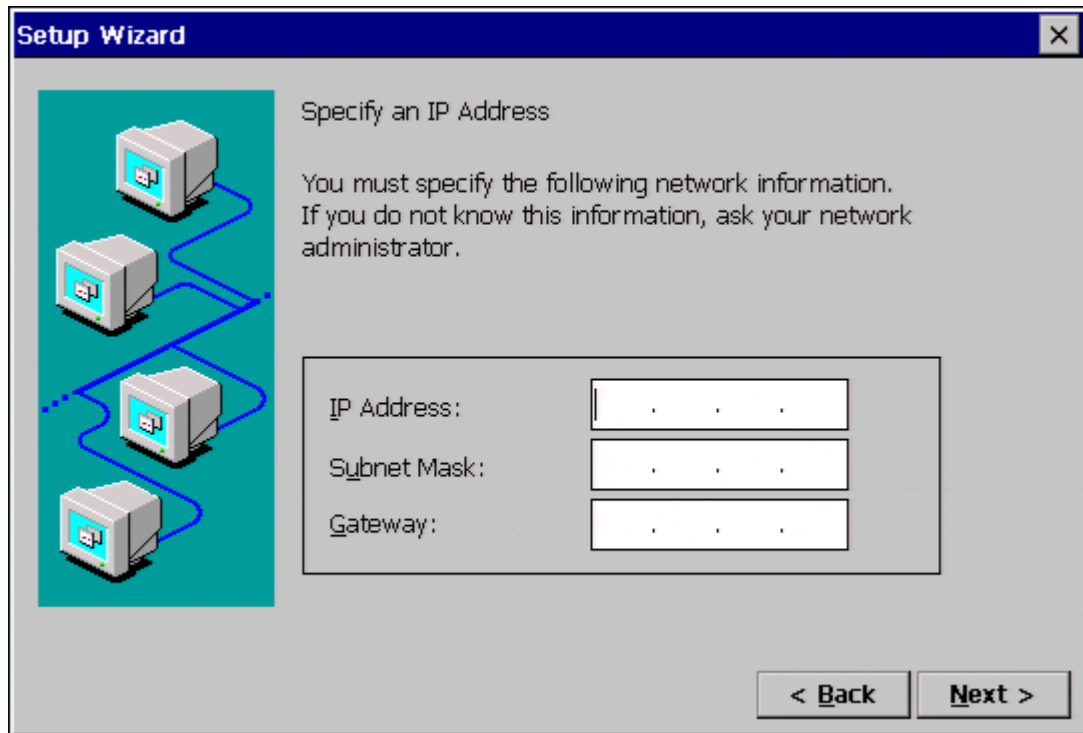
Figure 3-2 IP Address Dialog Box

**Note**

Contact the network administrator if a message appears in the box indicating that no network services were found. It may be that the network is not connected to the terminal or the network services are not configured. The default active radio button in this box will be **No** if network services were not found; otherwise the default will be **Yes**.

Click on one of the two radio buttons to select a method for supplying IP addresses:

- If you select **No, I will enter static IP information** and click on **Next**, the **Specify an IP Address** (Figure 3-3) will display, followed by the **Optional Information** dialog box.
- If you select **Yes, use the IP information supplied by DHCP** and click on **Next**, the **Desktop Area and Refresh Frequency** (Figure 3-5) dialog box will display, skipping the **Specify an IP Address** dialog box.

Figure 3-3 Specify an IP Address Dialog Box

The image shows a Windows-style dialog box titled "Setup Wizard" with a close button (X) in the top right corner. On the left side, there is a graphic of four computer monitors connected by blue lines, representing a network. The main text area contains the title "Specify an IP Address" and a paragraph: "You must specify the following network information. If you do not know this information, ask your network administrator." Below this text is a form with three input fields, each preceded by a label: "IP Address:", "Subnet Mask:", and "Gateway:". Each input field is a rectangular box with a vertical line on the left and three dots on the right, indicating a dotted decimal format. At the bottom right of the dialog box, there are two buttons: "< Back" and "Next >".

Setup Wizard

Specify an IP Address

You must specify the following network information.
If you do not know this information, ask your network administrator.

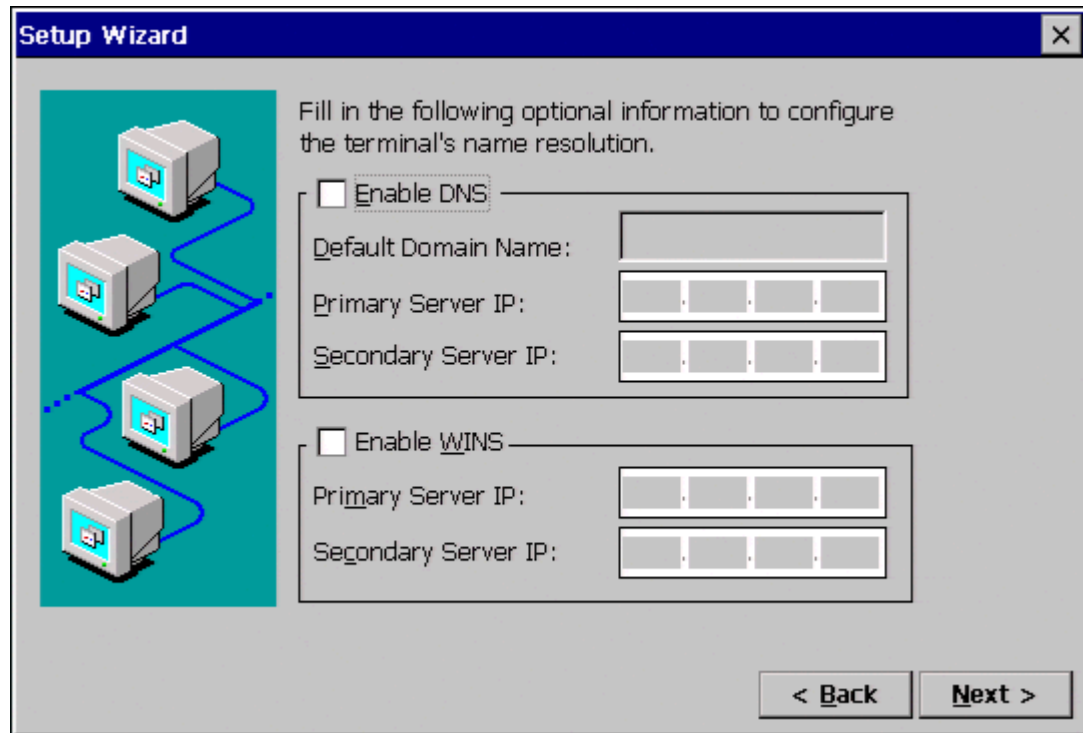
IP Address:

Subnet Mask:

Gateway:

< Back Next >

Enter the addressing information requested in the fields provided (by default the fields are blank). Click on **Next** to go to the **Optional Information** dialog box (Figure 3-4).

Figure 3-4 Optional Information Dialog Box

Setup Wizard

Fill in the following optional information to configure the terminal's name resolution.

☐ Enable DNS

Default Domain Name:

Primary Server IP:

Secondary Server IP:

☐ Enable WINS

Primary Server IP:

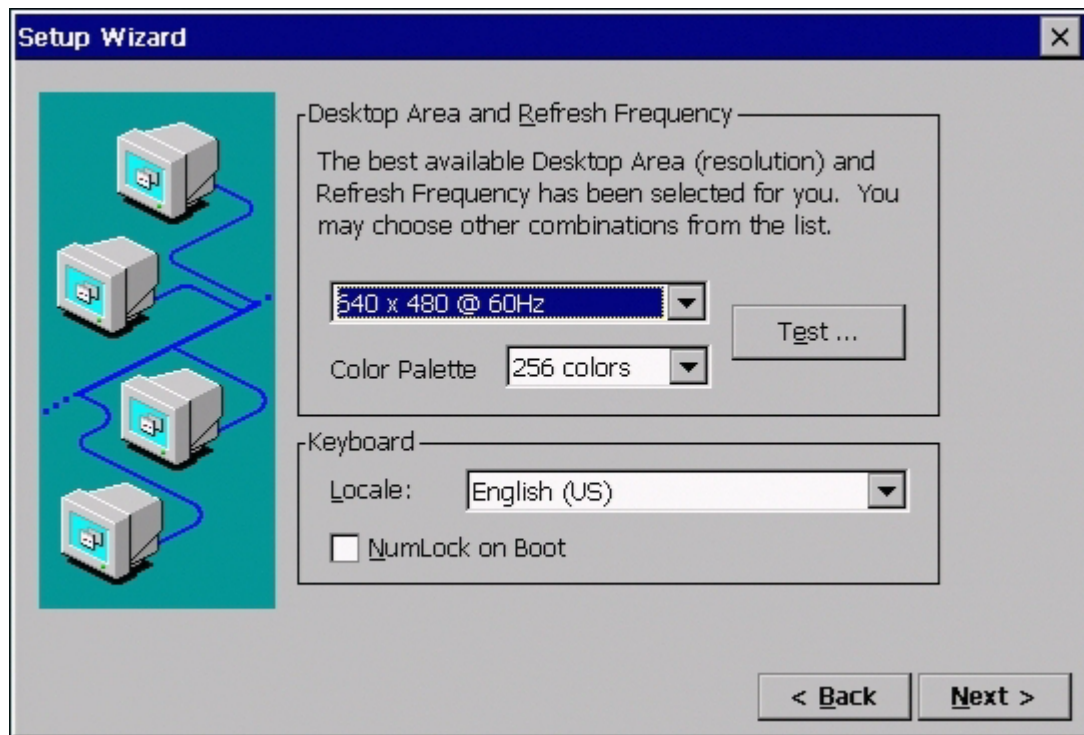
Secondary Server IP:

< Back Next >

Check a box to enable name resolution:

- **Enable DNS** - Enables Domain Name Services
- **Enable WINS** - Enables Windows Internet Naming Services

Enter the information in the text fields that are active. By default the check boxes are unselected and the text fields are inactive. Click on **Next** to go to the next step.


Figure 3-5 Desktop and Keyboard Settings Dialog Box

The following table lists the functions of the **Desktop and Keyboard Settings** dialog box.

Table 3-1 Desktop and Keyboard Settings Dialog Box

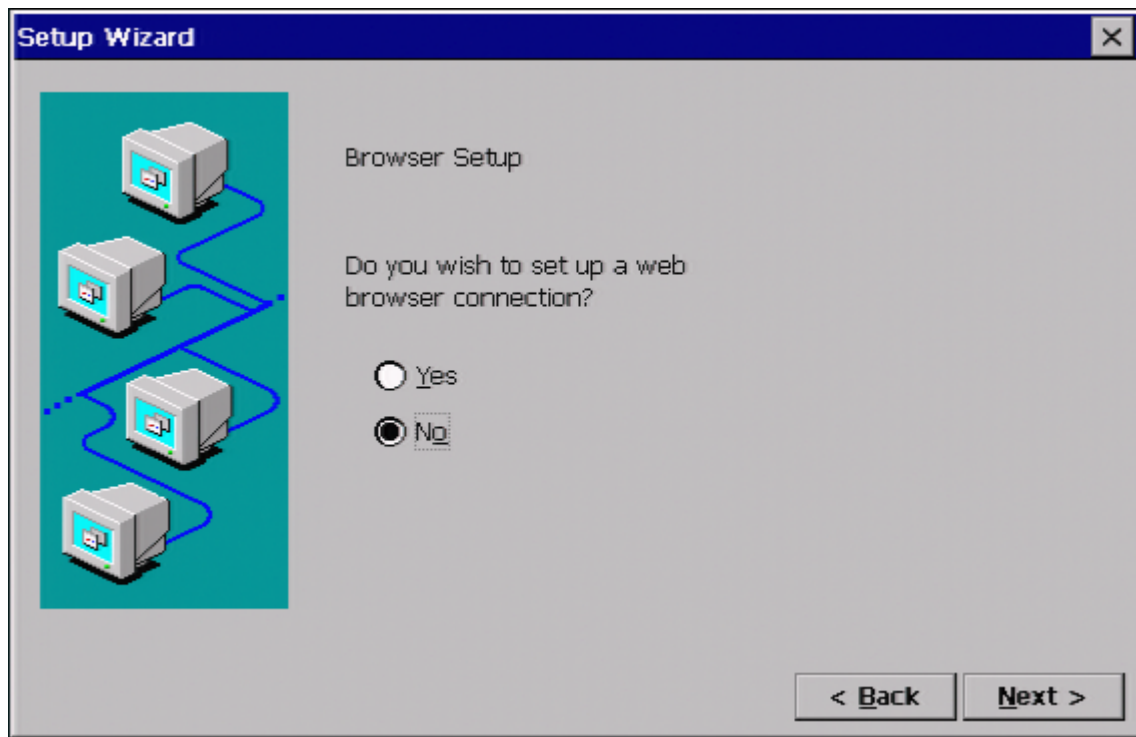
| Function | Description |
|---|---|
| Desktop Area and Refresh Frequency area: | |
| Resolution drop-down list box | <p>Select a resolution from the list. Selections are:</p> <ul style="list-style-type: none"> • Best Available Using DDC Supported in all terminals. • 640 x 480 @ 60Hz Supported in all terminals. • 640 x 480 @ 75Hz Supported in all terminals. • 640 x 480 @ 85Hz Supported in all terminals. • 800 x 600 @ 60Hz Supported in all terminals. • 800 x 600 @ 75Hz Supported in all terminals. • 800 x 600 @ 85Hz Supported in all terminals. • 1024 x 768 @ 60Hz Supported in all terminals. • 1024 x 768 @ 75Hz Supported in all terminals. • 1024 x 768 @ 85 Hz Supported in all terminals. • 1280 x 1024 @ 60 Hz Supported in the T1010 only. |
| Color Palette drop-down list box | Select the color resolution for applications used with the terminal (8-bit, 256 colors or 16-bit, 65,536 colors). Typically, 256 would be selected for ICA and 65536 would be selected if the local browser is used (although use of the lower resolution may help the terminal run faster). |
| Test... command button | Click on this command button to test the selections you made in the drop-down list boxes in this area. The following dialog box displays: |

Table 3-1 Desktop and Keyboard Settings Dialog Box, Continued

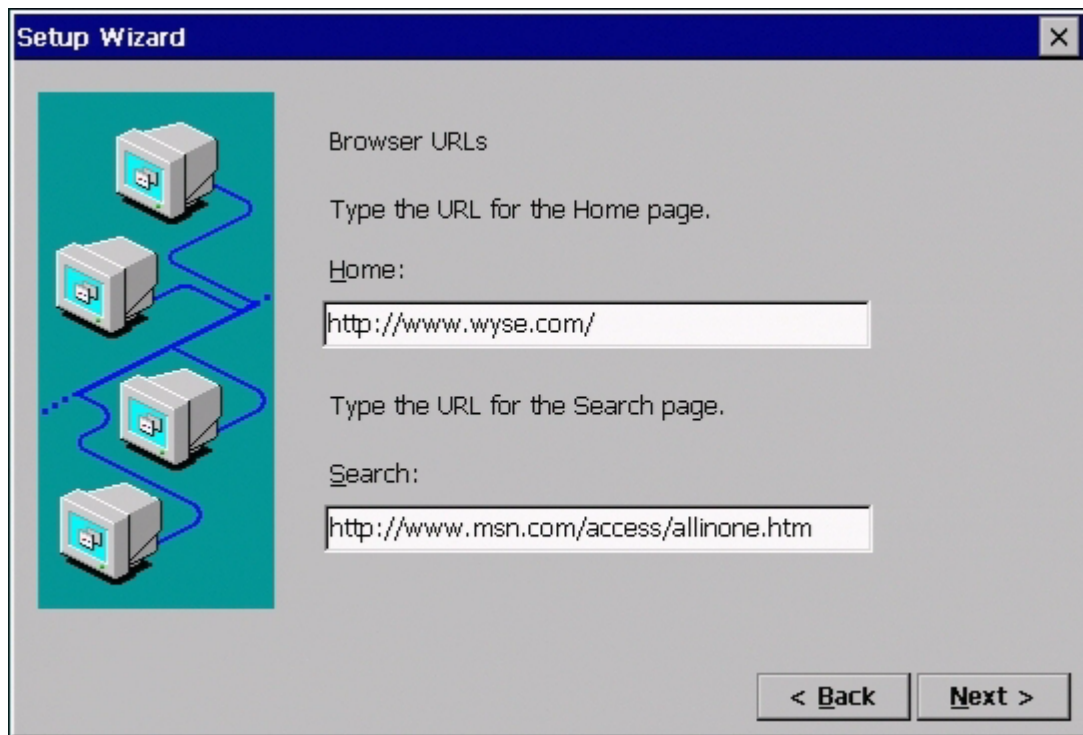
| Function | Description | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|-------------------|--------|--------|----------------|--------|-----------|------------------|-------|---------|----------------------|-----------|-------------------|---------------------|---------|---------|-----------------|---------------|--------------|----------|----------|--------------|-------|----------------|-----------|--------|-----------|-----------|-------|--------------|------------------|--------------|----------------------|--|--------------|------------|--|---------|----------|--|
| | <div><div>Testing Mode</div><div><div></div><div>The new mode will be tested. Your graphics adapter will be set to the new mode temporarily so you can determine whether it works properly. Please press OK and then wait 5 seconds.</div></div><div><div>OK</div><div>Cancel</div></div></div> <p>Clicking Ok displays a color test pattern. After the test pattern closes, respond to the prompt(s) to accept or reject the new settings.</p> <p>Keyboard area</p> <p>Select the keyboard nationality in the Locale drop-down list box. Check the NumLock on Boot check box if you want the numeric keypad to be active when the terminal boots. The following keyboard mappings are supported by the firmware:</p> <table><tr><td>Belgian Dutch</td><td>French</td><td>Slovak</td></tr><tr><td>Belgian French</td><td>German</td><td>Slovenian</td></tr><tr><td>Brazilian (ABNT)</td><td>Greek</td><td>Spanish</td></tr><tr><td>Canadian Eng (Multi)</td><td>Hungarian</td><td>Spanish Variation</td></tr><tr><td>Canadian FR (Multi)</td><td>Italian</td><td>Swedish</td></tr><tr><td>Canadian French</td><td>Italian (142)</td><td>Swiss French</td></tr><tr><td>Croatian</td><td>Japanese</td><td>Swiss German</td></tr><tr><td>Czech</td><td>Latin American</td><td>Turkish F</td></tr><tr><td>Danish</td><td>Norwegian</td><td>Turkish Q</td></tr><tr><td>Dutch</td><td>Polish (214)</td><td>US International</td></tr><tr><td>English (UK)</td><td>Polish (Programmers)</td><td></td></tr><tr><td>English (US)</td><td>Portuguese</td><td></td></tr><tr><td>Finnish</td><td>Romanian</td><td></td></tr></table> | Belgian Dutch | French | Slovak | Belgian French | German | Slovenian | Brazilian (ABNT) | Greek | Spanish | Canadian Eng (Multi) | Hungarian | Spanish Variation | Canadian FR (Multi) | Italian | Swedish | Canadian French | Italian (142) | Swiss French | Croatian | Japanese | Swiss German | Czech | Latin American | Turkish F | Danish | Norwegian | Turkish Q | Dutch | Polish (214) | US International | English (UK) | Polish (Programmers) | | English (US) | Portuguese | | Finnish | Romanian | |
| Belgian Dutch | French | Slovak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Belgian French | German | Slovenian | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brazilian (ABNT) | Greek | Spanish | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Canadian Eng (Multi) | Hungarian | Spanish Variation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Canadian FR (Multi) | Italian | Swedish | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Canadian French | Italian (142) | Swiss French | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Croatian | Japanese | Swiss German | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Czech | Latin American | Turkish F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Danish | Norwegian | Turkish Q | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dutch | Polish (214) | US International | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| English (UK) | Polish (Programmers) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| English (US) | Portuguese | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Finnish | Romanian | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

After making a new selection or accepting the default, click on **Next** to go to the **Browser Setup** dialog box.

Figure 3-6 Browser Setup Dialog Box

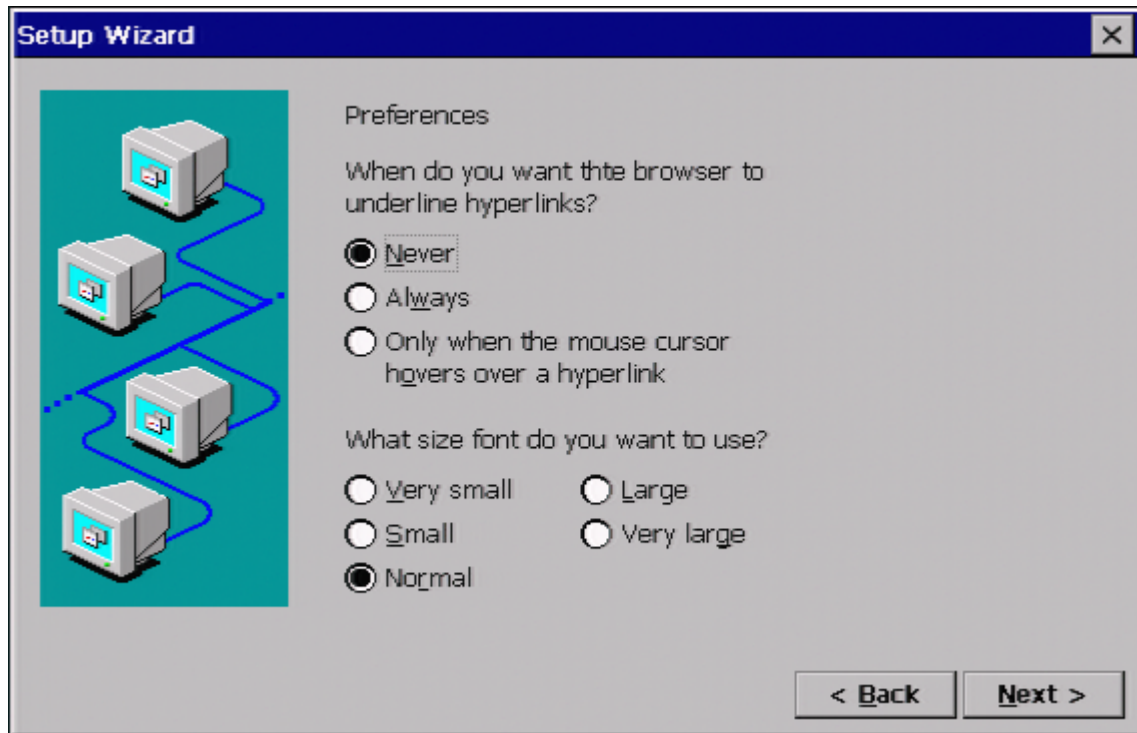


Select whether or not to set up a local browser, and click **Next** to the next step. If you selected Yes, the **Browser URLs** dialog box (Figure 3-7) displays. If you selected No, the browser setup is skipped and the **Local Printer Setup** dialog box (Figure 3-11) is displayed.

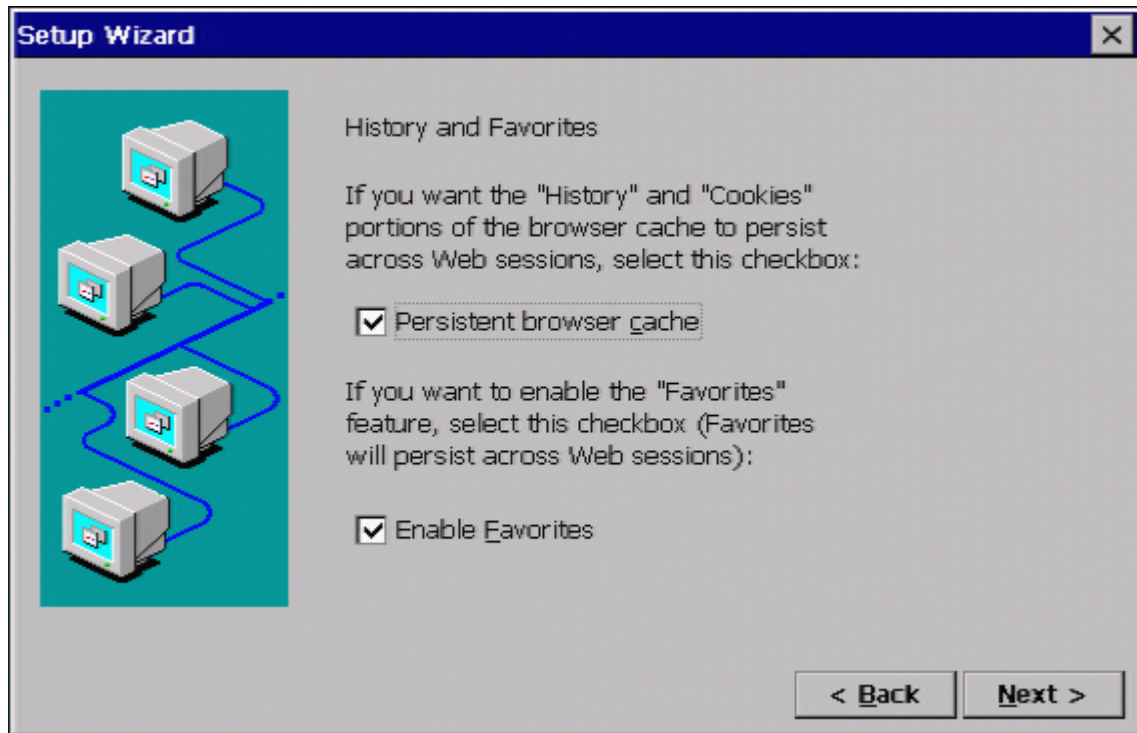
Figure 3-7 Browser URLs Dialog Box

Type the URLs for the **Home** and **Search** pages, or accept the defaults, and click **Next** to continue.

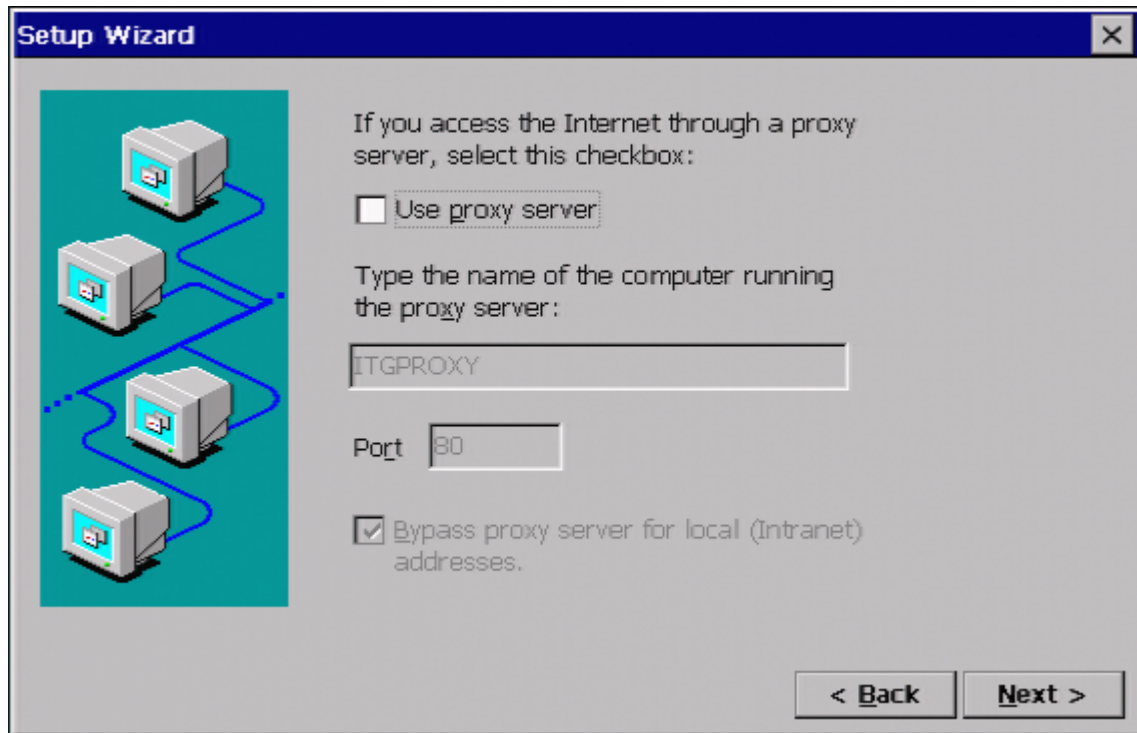
Figure 3-8 Preferences Dialog Box



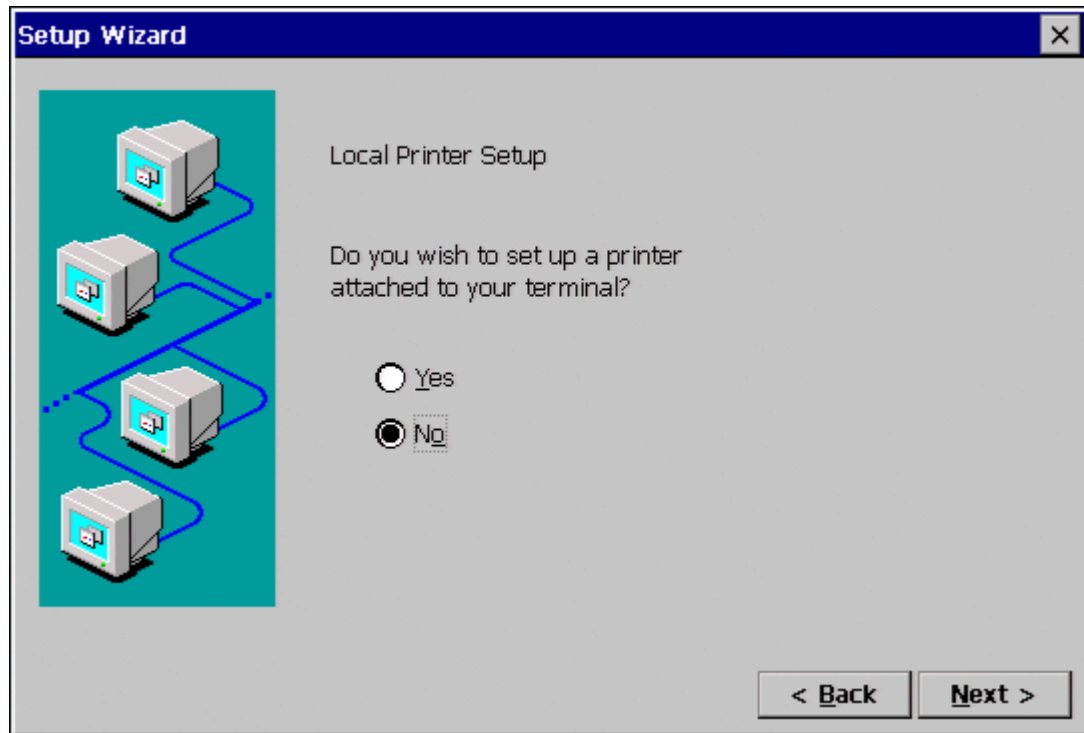
Select the desired preferences or accept the defaults, and click **Next** to continue.

Figure 3-9 History and Favorites Dialog Box

Uncheck the boxes or accept the defaults (checked) for the indicated selections, and click **Next** to continue.

Figure 3-10 Proxy Server Dialog Box

If your terminal accesses the Internet through a proxy server, check the **Use proxy server** box and make the required entries in the now-enabled text and check boxes, and click **Next** to continue to the **Local Printer Setup** dialog box (Figure 3-11).

Figure 3-11 Local Printer Setup Dialog Box

The **Local Printer Setup** dialog box displays.

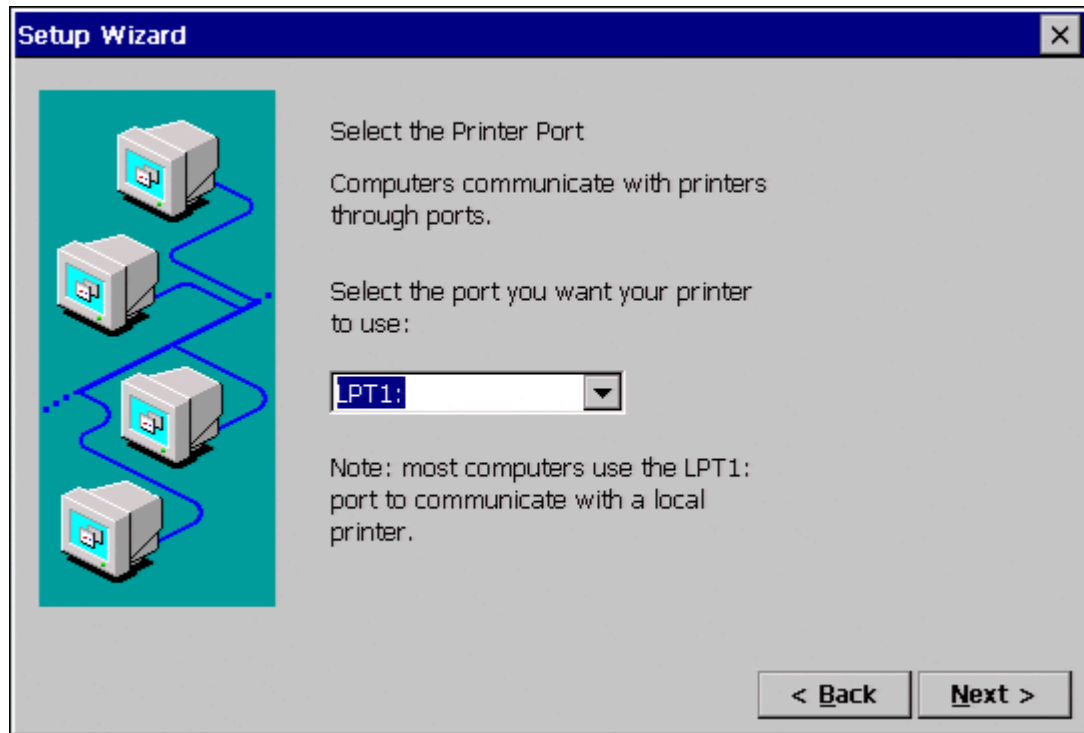
If you want to set up a printer connected locally to your terminal, select **Yes** and the dialog boxes that follow will prompt you for printer information.

**Note**

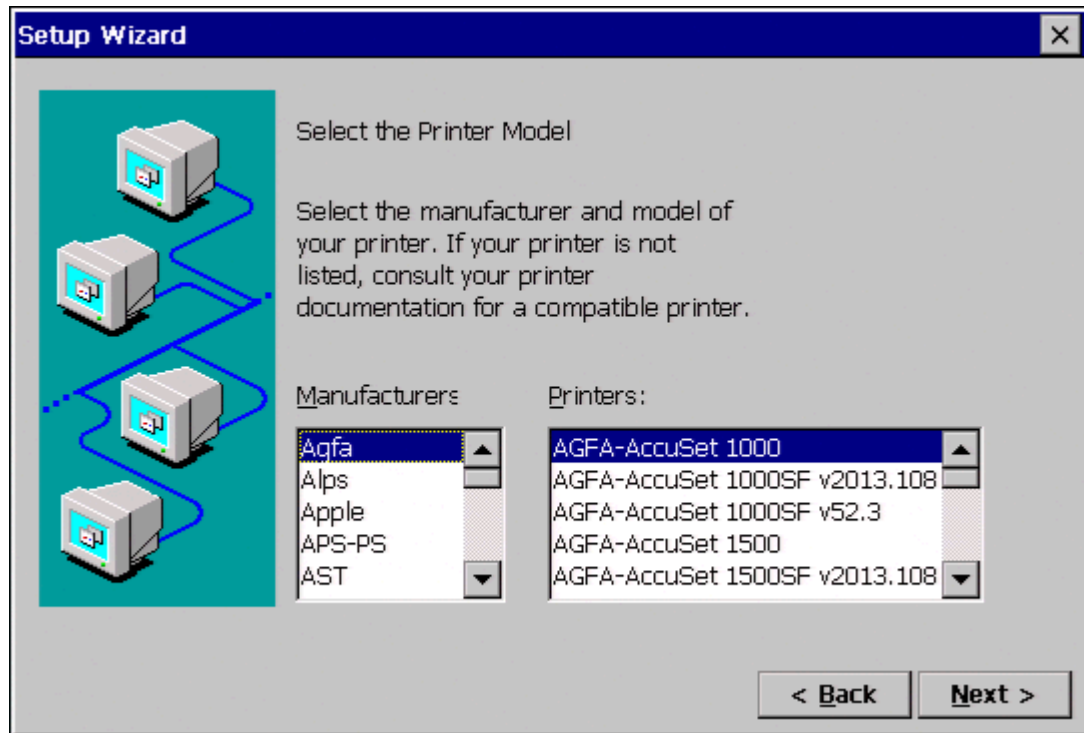
This local printer setup applies only to RDP connections. See "Local Printers" for further information.

If you select **No** (the default), you will skip the remaining printer dialog boxes and the **Finish** dialog box (Figure 3-17) will display.

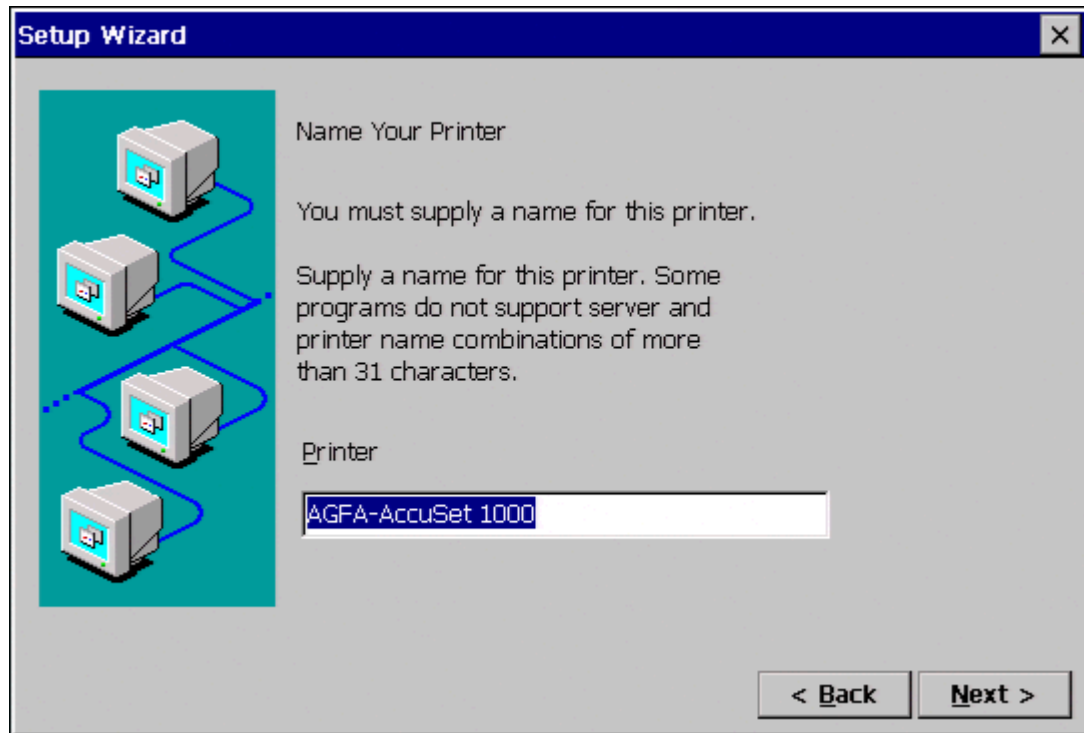
Make your selection and click on **Next**.

Figure 3-12 Select Printer Port Dialog Box

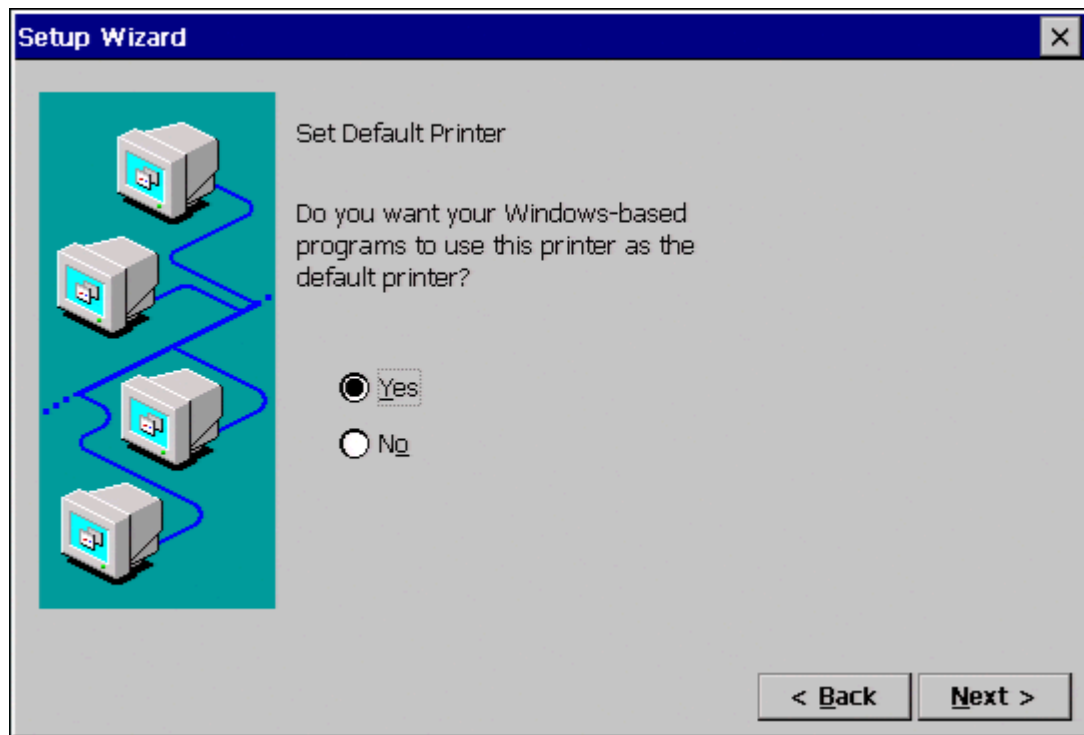
In the **Select Printer Port** dialog box, select the port to which the printer is connected and click on **Next** to go to the next step.

Figure 3-13 Select Printer Model Dialog Box

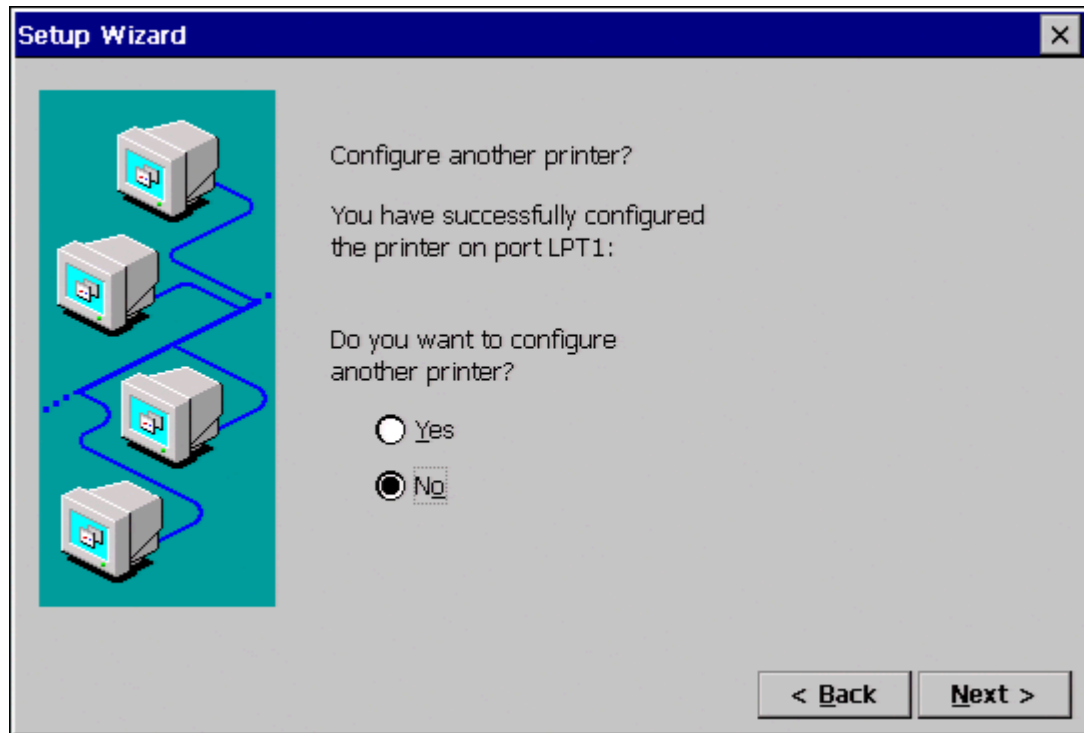
In the **Select the Printer Model** dialog box, select the printer model from the list and click on **Next** to go to the next step.

Figure 3-14 Printer Name Dialog Box

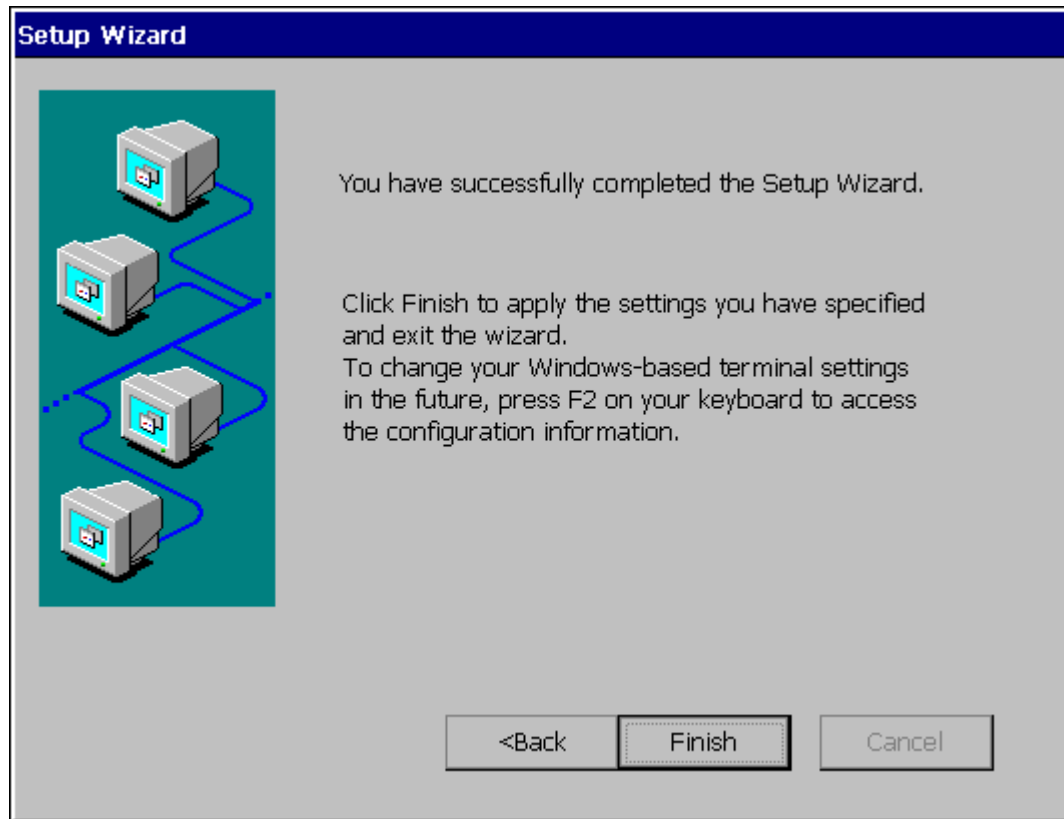
In the **Name Your Printer** dialog box, enter a name by which to refer to your printer and click on **Next** to go to the next step.

Figure 3-15 Default Printer Dialog Box

In the **Set Default Printer** dialog box, select whether or not you want your Windows-based programs to use this printer as the default printer (**Yes** is the default selection). Click on **Next** to go to the next step.

Figure 3-16 Configure Another Printer Dialog Box

If you have another printer connected to a different port on your terminal, select **Yes** in the **Configure another printer** dialog box. Click on **Next** to go to the next step. If you selected **Yes**, the printer setup process will repeat. If you selected **No**, the **Finish** dialog box will open.

Figure 3-17 Finish Dialog Box

The **Finish** dialog box is informational.

Click on the **Finish** command button to apply your selections and quit the **Setup Wizard**. After the **Setup Wizard** closes, the **Terminal Settings Change** dialog box displays.

Figure 3-18 Terminal Settings Change Dialog Box

When you click on **Restart**, the terminal will go through the boot process and restart in the normal operating mode. If you want to change any of the selections after you restart, press **F2** to open the **Terminal Properties** dialog box (see "Changing Terminal Properties" for instructions).

4 Changing Terminal Properties

Terminal properties can be changed or reconfigured at any time during normal terminal operation using the **Terminal Properties** dialog box. Figure 4-1 shows this dialog box.

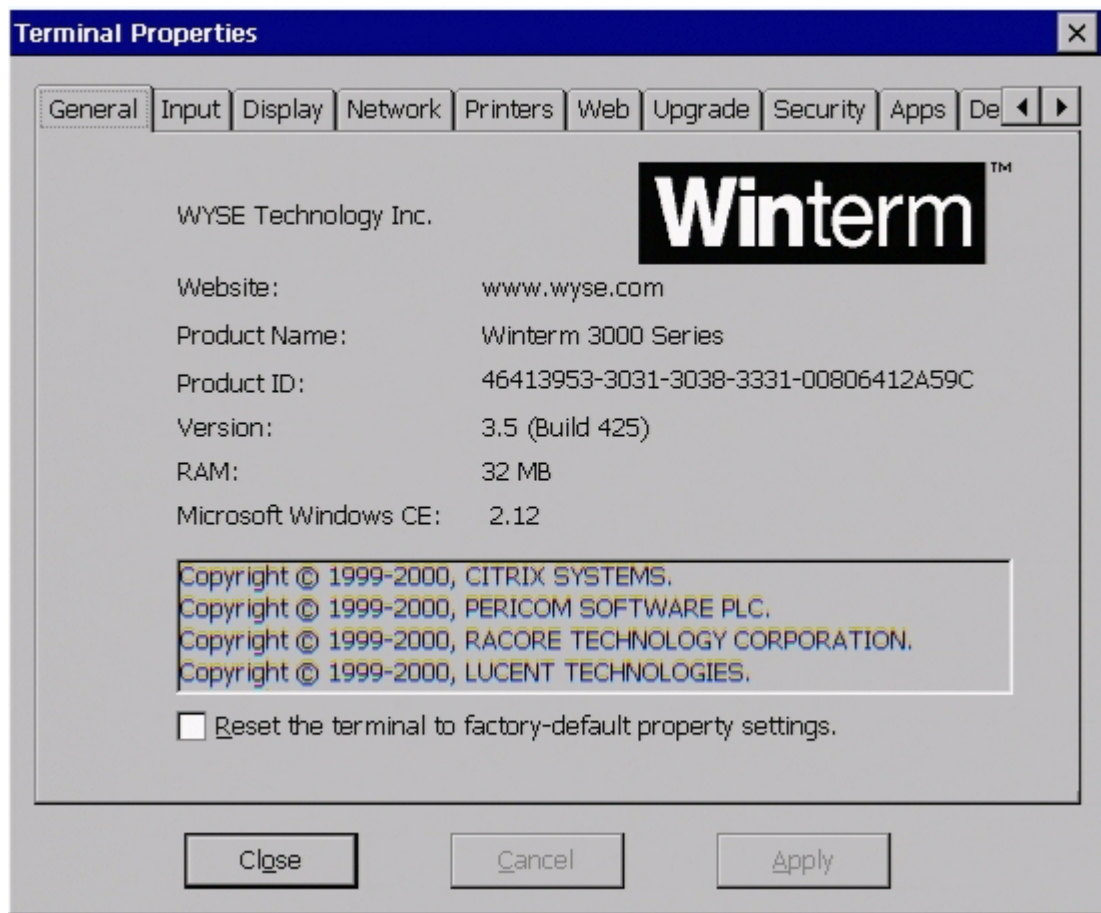
Using the Terminal Properties Dialog Box

Invoke the **Terminal Properties** dialog box by pressing the **F2** key from the **Connection Manager**.

The **Terminal Properties** dialog box consists of a total of 11 properties sheets that can be invoked by clicking on their individual tabs. The following 6 sheets are used to change terminal properties:

- **Network** - discussed in "Network Configuration"
- **Upgrade** - beginning with "Cable Firmware Upgrades".
- **Security** - beginning with "Security Properties"
- **Web** - discussed in "Web Browser"
- **Apps** - beginning with "Additional Applications"
- **Devices** - beginning with "Devices Properties"
- **Printers** - discussed in "Local Printers"

The **General**, **SysInfo**, **Input**, and **Display** properties sheets are discussed in "General Terminal Information" and "Display Configuration" and "Keyboard and Mouse Configuration" in the *T10x0 Series WBT Users Guide*.

Figure 4-1 Terminal Properties Dialog Box**Note**

The amount of available RAM may differ between terminal models.

Resetting to Factory Defaults

Proceed as follows:

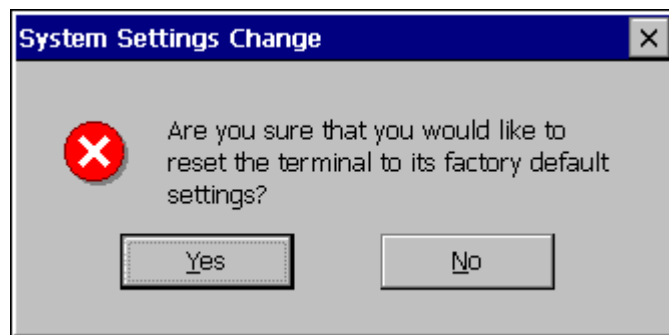
1. Click on the General tab of the **Terminal Properties** dialog box.

2. Click on the **Reset the Terminal to Factory Default Property Settings** check box. Figure 4-2 shows the **System Settings Change** dialog box that displays.
3. Click on **Yes** to start the reset process. The terminal will restart with the factory defaults in effect. The **Setup Wizard** displays when the terminal resets.

**Note**

If the above reset procedure fails, call technical support at Compaq (800-OKCOMPAQ) for instructions on using a hot-key reset procedure.

Figure 4-2 System Settings Change Dialog Box



Terminal Settings Change Dialog Box

When you change terminal properties using the **Setup Wizard** or the **Terminal Properties** dialog box, you will click on either the **Finish** or **OK** command button to save your new settings and close the application. The **Terminal Settings Change** dialog box will then display. Figure 4-3 shows the **Terminal Settings Change** dialog box.

Figure 4-3 Terminal Settings Change Dialog Box

This dialog box contains the **Restart** command button. The terminal must be restarted in order for your new settings to take effect. Click on **Restart** to restart the terminal. The **Connection Manager** displays. See "Connections Management" for detailed information about configuring and making terminal connections.

5

Network Configuration

The **Network** properties sheet lets you configure your network. See Figure 5-1 to view this properties sheet.

Using the Network Properties Sheet

To invoke this properties sheet:

1. Press **F2** to invoke the **Terminal Properties** dialog box.
2. Click on the **Network** tab.

Figure 5-1 Network Properties Sheet

Terminal Properties

General

Input

Display

Network

Printers

Web

Upgrade

Security

Apps

De

☐ Obtain an IP address from a DHCP server

☒ Specify an IP address

IP Address:

Subnet Mask:

Gateway:

Terminal Name:

WBT00806412A59C

Network Speed:

Auto Detect

Advanced Network...

Close

Cancel

Apply

The following table discusses the functions of the **Network** properties sheet.

Table 5-1 Network Properties Sheet


| Function | Description |
|---|--|
| Obtain an Address from a DHCP Server | Click on this radio button to enable DHCP addressing. An IP address will be automatically assigned to your terminal by the DHCP server. |
| Specify an IP Address | Use this group box to enter a specific IP address. IP Address Enter a static IP address in this field. Subnet Mask Enter the subnet mask of the IP address. Gateway Enter the gateway of the IP address. |
| Terminal Name | Enter a name of your choice for the terminal. |
| Network Speed | Use this scroll list to select a network communication speed. The choices are (in Mb/s): <ul style="list-style-type: none">• Auto Detect (default)• 10 Mbs - Half Duplex• 10 Mbs - Full Duplex• 100 Mbs - Half Duplex• 100 Mbs - Full Duplex  Note If you do not know your network's communication speed or whether the communication link should be half- or full-duplex, contact your system administrator. |

Table 5-1 Network Properties Sheet, Continued

| Function | Description |
|------------------|--|
| Advanced Network | The Advanced Network command button is enabled if Specify an IP Address is selected or if a DHCP server was detected on start-up or and Obtain an IP address from a DHCP server is selected . Click on this command button to invoke the Advanced Network Settings dialog box: |

Advanced Network Settings

☐ **Enable DNS**

Default Domain:

Primary Server IP Address:

Secondary Server IP Address:

☐ **Enable WINS**

Primary Server IP Address:

Secondary Server IP Address:

Enable DNS

Use the controls in this group to set domain, primary, and secondary IP addresses for DNS. The default for the group is disabled (**Enable DNS** not checked).

Enable WINS

Use the controls in this group to set the primary and secondary IP addresses of a WINS server. The default for the group is disabled (**Enable WINS** not checked).

6

Web Browser

The **Web** properties (Figure 6-1) sheet lets you configure the Internet Explorer browser.



Note

System time should be set accurately for cookies to work properly for some Web pages. Use of a time server is preferred. See “SNTP Client” in External Devices for information about synchronizing system time to a time server.

Using the Web Properties Sheet

To invoke this properties sheet:

1. Press **F2** to invoke the **Terminal Properties** dialog box.
2. Click on the **Web** tab.

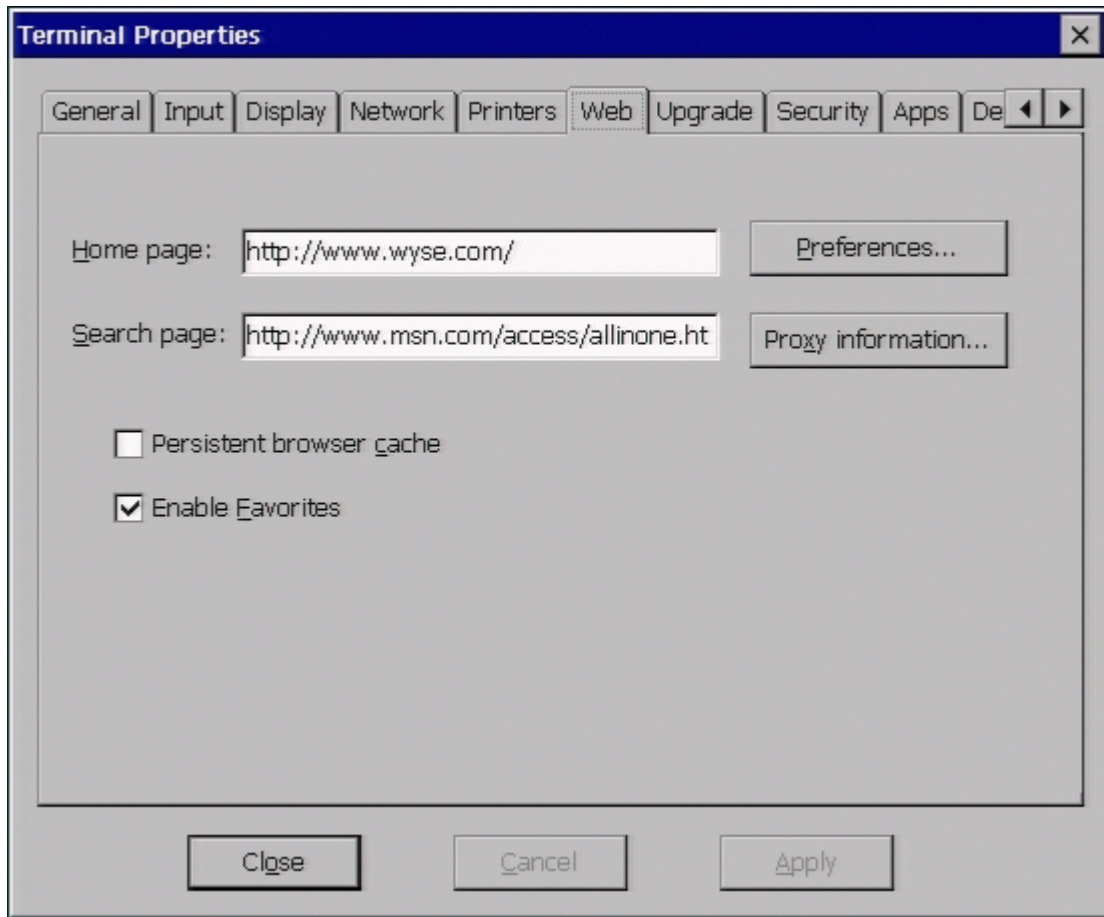
Figure 6-1 Web Properties Sheet

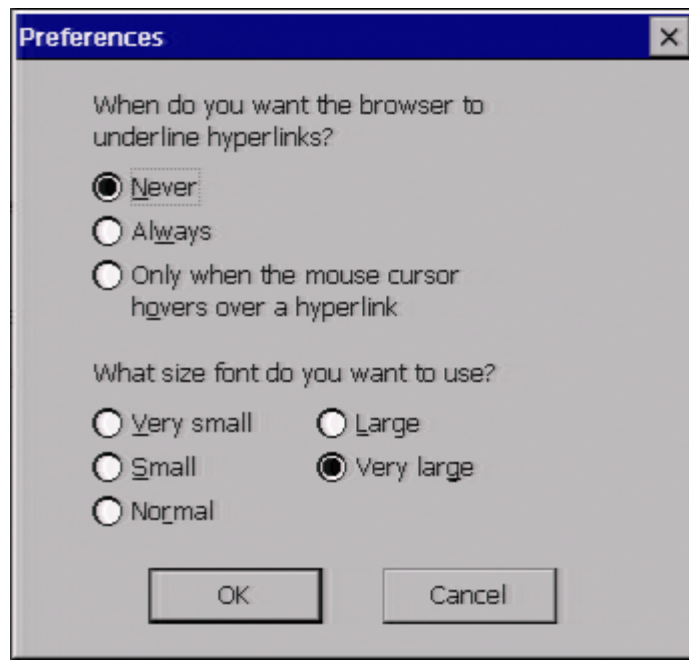
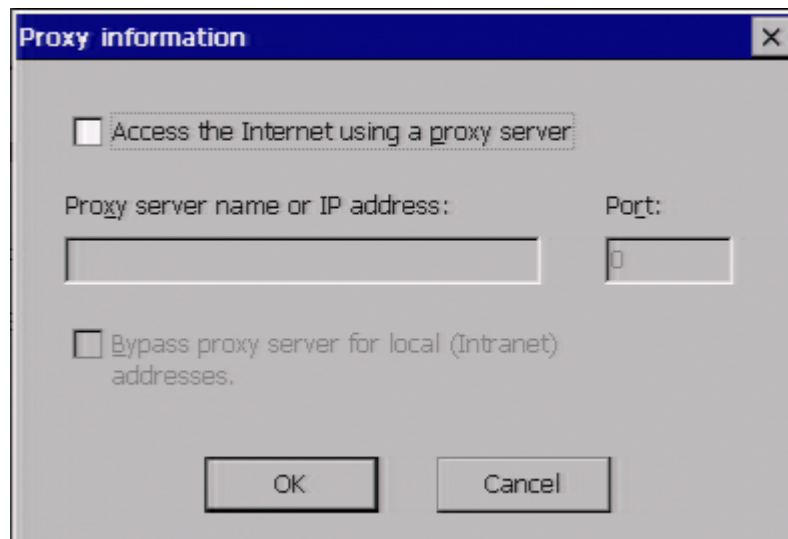
Table 6-1 discusses the functions of the **Web** properties sheet.

Table 6-1 Web Properties Sheet

| Function | Description |
|--|---|
| Home page text box | Enter the URL of the Web page that will open initially upon launching the Browser. |
| Search page text box | Enter the URL of the search engine home Web page or a Web page that has links to a variety of search engines. |
| Persistent browser cache check box | Check this box if you want the contents of the browser cache to be retained between sessions. |
| Enable Favorites check box | Check this box to enable the favorites table in the browser. |
| Preferences... command button | Opens the Preferences dialog box (Figure 6-2). Make selections indicated by the prompts in this dialog box. |
| Proxy Information... command button | Opens the Proxy Information dialog box (Figure 6-3). If your terminal accesses the Internet through a proxy server check the Use proxy server box and make the appropriate entries in the now-enabled text and check boxes. |

**Note**

For instructions on using the browser, refer to the *T1000/T1010 Windows-based Terminal Users Guide*.

Figure 6-2 Preferences Dialog Box**Figure 6-3 Proxy Information Dialog Box**

7 Additional Terminal Applications

The **Apps** properties sheet contains functions for ICA, RDP, DHCP, and SNMP management options. See Figure 7-1.

Using the Apps Properties Sheet

Figure 7-1 shows this properties sheet. To invoke the **Apps** properties sheet:

1. Press **F2** to invoke the **Terminal Properties** dialog box.
2. Click on the **Apps** tab in the **Terminal Properties** dialog box.

Table 7-1 describes the functions of the **Apps** properties sheet.

Figure 7-1 Apps Properties Sheet)

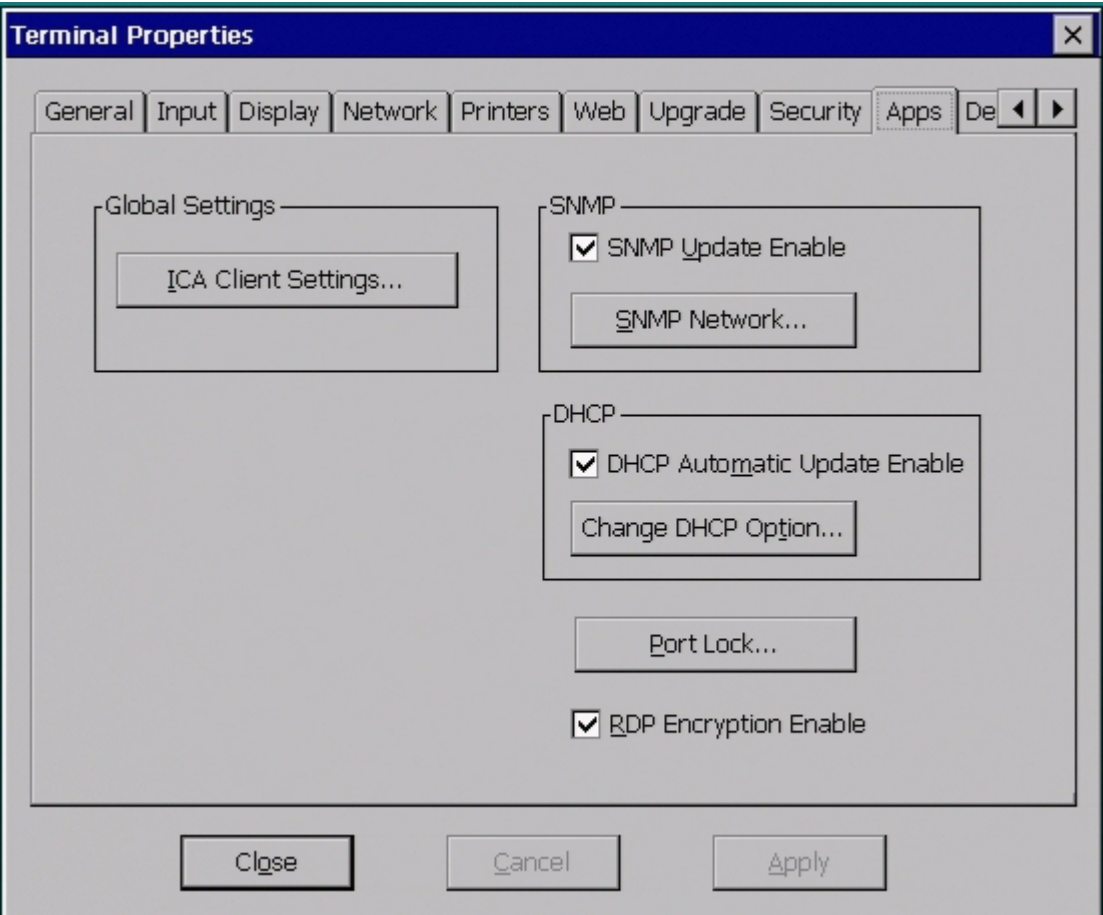
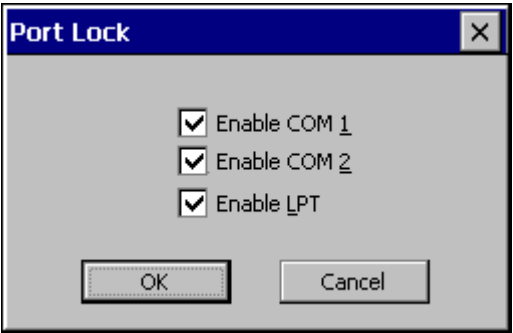


Table 7-1 Apps Properties Sheet

| Function | Description |
|---------------------|---|
| Global Settings | Group box used to manage ICA sessions. |
| ICA Client Settings | Click on the ICA Client Settings command button in the Global Settings group box. See "ICA Client Settings" in the Advanced User Interface section for details about ICA client settings. |


Table 7-1 Apps Properties Sheet, Continued

| Function | Description |
|------------------------------|---|
| SNMP Update Enable | Check this box to enable terminal firmware updates through SNMP. |
| SNMP Network... | Use this command button to invoke the SNMP Network Administration dialog box. See “SNMP Firmware Upgrades” in Firmware Upgrades for details about this dialog box. |
| DHCP Automatic Update Enable | Check this box to enable automatic firmware upgrades. See “DHCP Firmware Upgrades” in Firmware Upgrades for details. |
| Change DHCP Option... | Use this command button to invoke the Change DHCP Option IDs dialog box. See “DHCP Firmware Upgrades” in Firmware Upgrades for details. |
| Port Lock | Click on the Port Lock command button to invoke the Port Lock dialog box: |



Use the list of check boxes in the dialog box to select which ports you want to lock (enable). The default is all boxes checked.

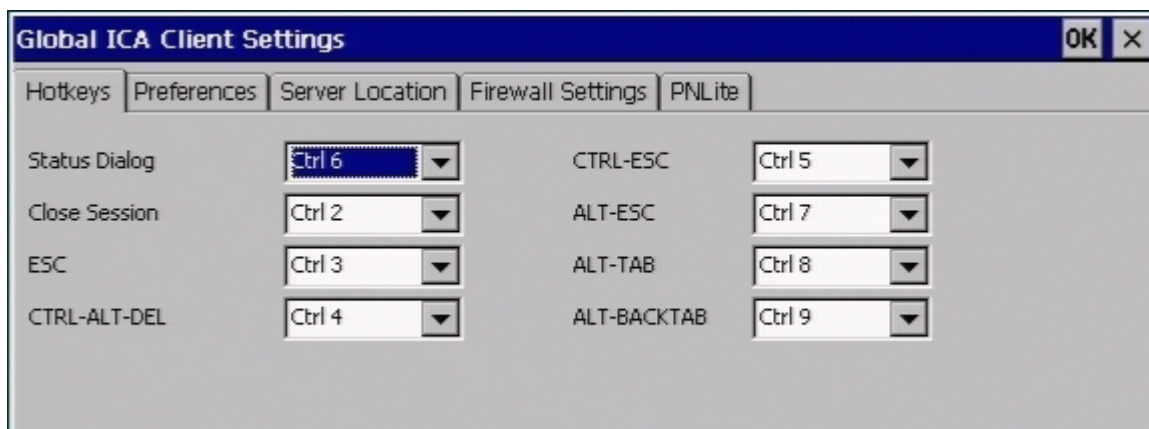
| | |
|-----------------------|---|
| RDP Encryption Enable | Click this check box to check and enable RDP encryption. By default this function is enabled. |
|-----------------------|---|

 **Caution**
If your WTS server does not support encryption, this function must be disabled.

8 ICA Client Settings

ICA client settings are handled in the **Global ICA Client Settings** dialog box. This dialog box is invoked through the **Apps** properties sheet found in the **Terminal Properties** dialog box. See “Additional Terminal Applications” for detailed information about the **Apps** properties sheet. Figure 8-1 shows the **Global ICA Settings** dialog box.

Figure 8-1 Default Hotkeys Properties Sheet



Note

An ICA session must be running for these hotkeys to function.

Using the Global ICA Client Settings Dialog Box

To invoke the **Global ICA Settings** dialog box:

1. Press **F2** to invoke the **Terminal Properties** dialog box.
2. Click on the **Apps** tab in the **Terminal Properties** dialog box.
3. Click on the **ICA Client Settings** command button in the **Global Settings** group box.

There are five properties sheets associated with the **Global ICA Client Settings** dialog box. A description of the functions of each sheet follows.

Setting the Default Hotkeys

Hotkeys can be used during ICA sessions to invoke various functions. Some hotkeys control the behavior of ICA windows, while others emulate standard Windows hotkeys. To set hotkeys, access the **Default Hotkeys** properties sheet. It is the default properties sheet for the **Global ICA Client Settings** dialog box. The following figure shows the **Default Hotkeys** properties sheet.

Use the pull-down scroll boxes on the **Default Hotkey** properties sheet to customize default hotkey key sequences. The following table describes the hotkeys.

Table 8-1 Default Hotkeys Properties Sheet

| Function | Description |
|----------------------|---|
| Status Dialog | This function displays ICA connection status. |
| Close Session | This function disconnects an ICA client from a server and closes the client window on the local desktop. When you use this hotkey, the open session continues to run on the server. If you do not want to leave the session running in a disconnected state, log off. |
| Esc | Functions as Esc (escape) key. |
| Ctrl+Alt+Del | This hotkey displays the Windows NT Security dialog box. |
| Ctrl+Esc | <ul style="list-style-type: none">• On WinFrame servers, pressing this key sequence displays the Remote Task List.• On MetaFrame servers, pressing this key sequence displays the Windows NT Start menu. |

Table 8-1 Default Hotkeys Properties Sheet, Continued

| Function | Description |
|-------------|---|
| Alt+Esc | This hotkey cycles the focus through the minimized icons. |
| Alt+Tab | This hotkey cycles sequentially through applications that are open. A window appears to display the applications as you cycle through them. |
| Alt+Backtab | This hotkey cycles sequentially through applications that are open in a session, but in the opposite direction. |

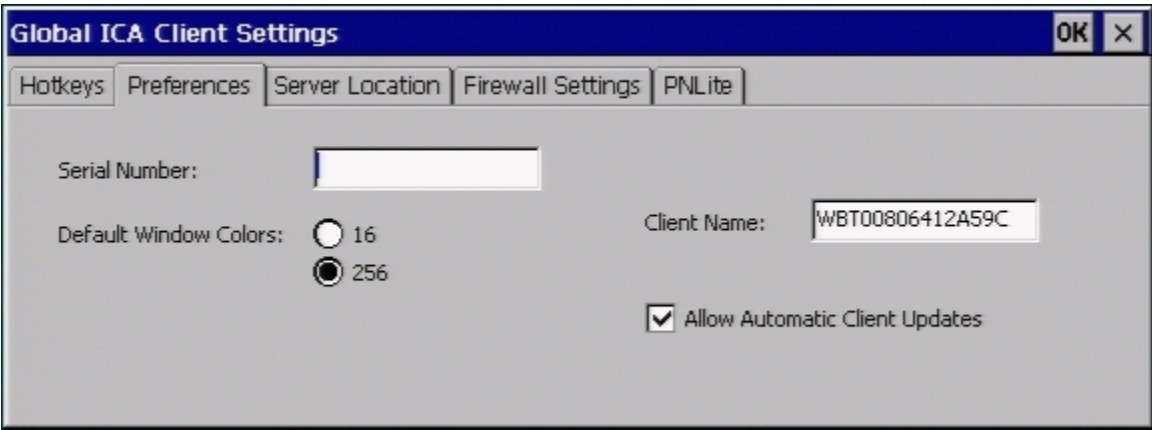
Setting Terminal Preferences

Use the **Preferences** properties sheet to change default settings. To invoke the **Preferences** properties sheet:

- 1. Click on the **ICA Client Settings** command button on the **Apps** properties sheet.
- 2. Click the **Preferences** tab.

The **Preferences** properties sheet displays. Figure 8-2 shows the **Preferences** properties sheet.

Figure 8-2 Preferences Properties Sheet



The following table describes each function of the properties sheet.

Table 8-2 Preferences Properties Sheet


| Function | Description |
|------------------------------|--|
| Serial Number | <p>This is the serial number of your ICA Client software. This field is only necessary when you are using the ICA Windows CE Client with a product such as WinFrame Host/Terminal, which requires each client to have a Citrix PC Client Pack serial number in order to connect to the server. If a serial number is required, you must enter it exactly as it appears on the serial number card. The Serial Number field is not used by MetaFrame servers.</p> |
| Default Window Colors | <p>Two or three radio buttons are displayed. If the terminal Color Palette (using the Display properties sheet in the Terminal Properties dialog box) is 256 colors, radio buttons for 16 or 256 colors are displayed. If 65536 is selected in the Color Palette, after restarting the terminal an additional radio button, Thousands, is displayed.</p> <p> Note</p> <p>The ICA server must be capable of supporting 16-bit color for the Thousands selection to work. If not, the terminal will display only 256 (8-bit) colors when Thousands is selected.</p> <p>When using a PPP connection, 16 color mode may provide faster performance. If the window options specified exceed the capabilities of the client hardware, the maximum size and color depth supported by the CE operating system are used.</p> |

Table 8-2 Preferences Properties Sheet, Continued

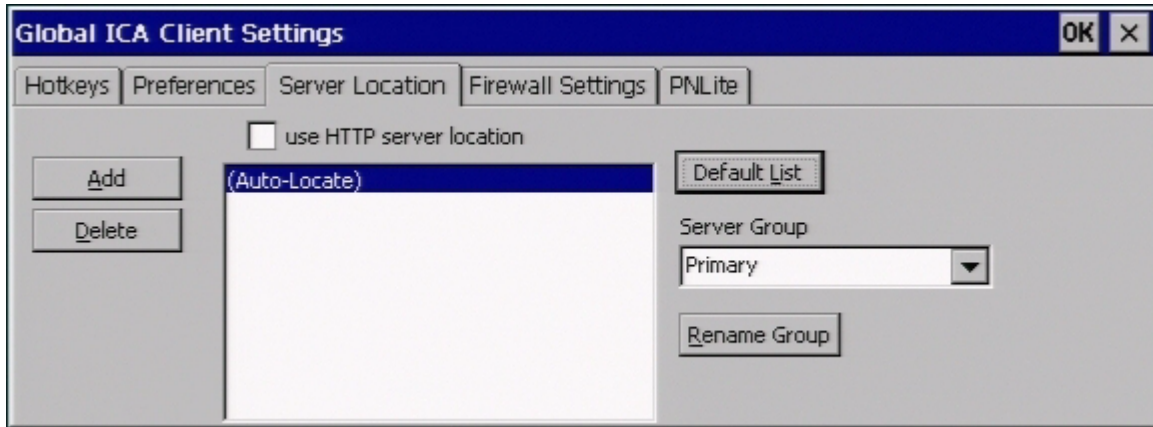
| Function | Description |
|---|---|
| Client Name | This text box allows you to change the client name of your client device. The Citrix server uses the client name to uniquely identify resources (such as mapped printers) associated with a given client device. The client name should be unique for each computer running a copy of a Citrix ICA Client. If you do not use unique client names, device mapping and application publishing may not operate correctly. The default is WBT<mac address> . The maximum length of the client name is 15 characters . |
| Allow Automatic Client Updates check box | Use the Client Auto Update feature to store new versions of Citrix ICA Clients. The ICA Client software is stored in a client update database and downloaded to the terminal when a user connects to the Citrix server. |

Setting the Server Location

Use the **Server Location** properties sheet to construct a list of ICA servers. To invoke this properties sheet:

1. Click on the **ICA Client Settings** command button on the **Apps** properties sheet.
2. Click the **Server Location** tab.

The **Server Location** properties sheet displays. The following figure shows this sheet.

Figure 8-3 Server Location Properties Sheet

The following table describes each of the functions of this sheet.

Table 8-3 Server Location Properties Sheet

| Function | Description |
|---------------------------------|---|
| Add | Click on this command button to open the Add Server Address dialog box. The server is added to the selected server group. If you checked use HTTP server location , you must enter the server address and port to use. |
| Delete | Use this button to delete the name or IP address of a server from the selected group. |
| use HTTP server location | Check this box if your firewall restricts UDP broadcasts. This option enables the client to retrieve a list of all Citrix servers on the network and a list of all published applications from a Citrix server that is behind a firewall. |
| Default List | Use this button to recall the previous server list. |

Table 8-3 Server Location Properties Sheet, Continued

| Function | Description |
|--------------|---|
| Server Group | Use this drop-down list to select whether the servers entered in the Address List field belong to your Primary, first backup (Backup 1), or second backup (Backup 2) group. |
| Rename Group | Opens the Rename Server Location Group dialog box. |

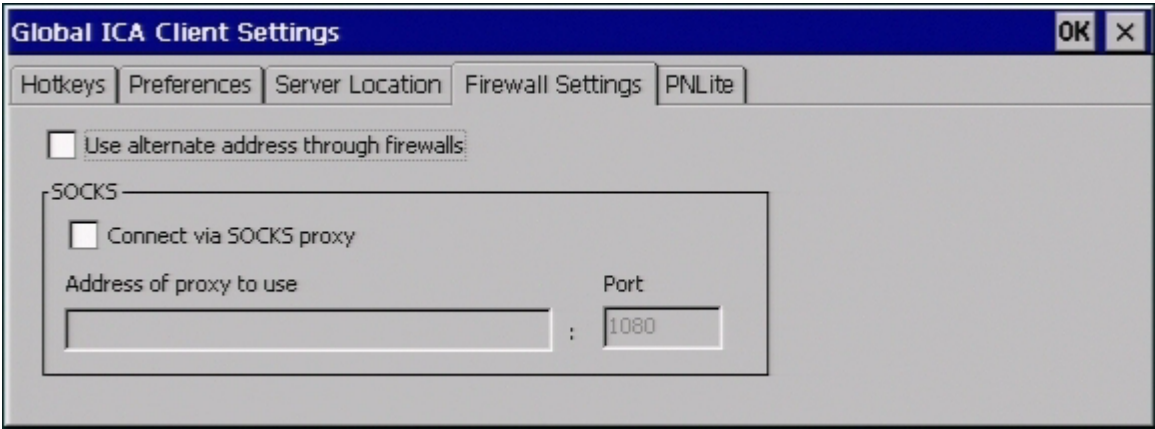
Setting Up a SOCKS Firewall

Use the **Firewall Settings** properties sheet to set up a SOCKS (Socket Secure) firewall. To invoke this properties sheet:

- 1. Click on the **ICA Client Settings** command button on the **Apps** properties sheet.
- 2. Click the **Firewall Settings** tab.

The properties sheet displays. The following figure shows this sheet.

Figure 8-4 Firewall Settings Properties Sheet



The following table describes each of the functions of this sheet.

Table 8-4 Firewall Settings Properties Sheet

| Function | Description |
|--|---|
| Use Alternate Address Through Firewalls | By default the box is not checked. |
| SOCKS | <p>Use this group box to enable and configure SOCKS protocol.</p> <p>Connect Via SOCKS Proxy Check this box to enable a SOCKS proxy connection. SOCKS is a protocol that sets up a proxy server between a client and a server. This proxy server then acts as a channel for communication between the client and server. By default the box is not checked.</p> <p>Address of Proxy to Use Enter in this text box the address of the proxy server. By default this box is deactivated.</p> <p>Port Enter in this text box the port number. By default this box is deactivated.</p> |

Setting Up a PNLite

PNLite is an ICA connection mode that enables the terminal to connect to applications available on a Citrix server without having to configure connections for each published application.



Note

Refer to “NFuse Server Configuration Requirements” for an explanation of the differences between the methods of accessing published applications via the NFuse server and limitations on the NFuse server application setup for use with Model T10x0 series terminals.



Note

PNLite connections are not supported by failover (See “Failover”).

To invoke this properties sheet:

1. Click on the **ICA Client Settings** command button on the **Apps** properties sheet.
2. Click the **PNLite** tab.

The properties sheet displays. The following figure shows this sheet.

Figure 8-5 PNLite Properties Sheet

The screenshot shows the 'Global ICA Client Settings' dialog box with the 'PNLite' tab selected. The dialog has a title bar with 'OK' and 'X' buttons. Below the title bar are tabs for 'Hotkeys', 'Preferences', 'Server Location', 'Firewall Settings', and 'PNLite'. The 'PNLite' tab contains the following elements:

- An unchecked checkbox labeled 'Enable PNLite'.
- A group box labeled 'Server' containing the text 'Address and port of NFuse server' and two input fields (one for address, one for port).
- A group box labeled 'User credentials' containing three input fields for 'User name:', 'Password:', and 'Domain:', and an unchecked checkbox labeled 'Save password'.

The following table describes each of the functions of this sheet.

Table 8-5 PNLite Properties Sheet

| Function | Description |
|------------------------------|---|
| Enable PNLite | Check to enable the PNLite application. |
| Server area | Enter the address and port number of the NFuse server in the Address and port of NFuse server text boxes. |
| User credentials area | Enter the requested information in the User Name , Password , and Domain text boxes. Check the Save password box if you want the password retained on the terminal. |

Connection Configuration

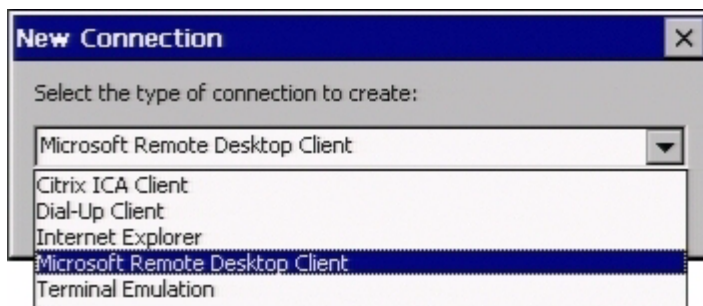
- 14 Creating New Connections**
- 15 ICA Connections**
- 16 Dial-Up Connections**
- 17 Dial-Up Dialing Properties and Configuration**
- 18 Dial-Up TCP/IP Settings and Security**
- 19 Dial-Up Scripts**
- 20 RDP Connections**
- 21 Terminal Emulation Connections**
- 22 TCP/IP Telnet Configuration**
- 23 Internet Explorer Connections**
- 24 Editing ICA Connections**
- 25 Editing RDP, Dial-Up, and Terminal Emulation Connections**

9

Creating New Connections

The **New Connection** dialog box is used to create new connections. Figure 9-1 shows the **New Connection** dialog box.

Figure 9-1 New Connection Dialog Box



Using the New Connection Dialog Box

To invoke the dialog box:

1. Click on the **Configure** tab in the **Connection Manager** dialog box.
2. Click on the **Add** command button on the **Configure** properties sheet.

See "Connection Configuration" for details about the **Connection Manager**.

Use the scroll list shown in the dialog box above to select the type of connection protocol you want. When you choose from the list above, you are deciding which connection protocol you want to use to connect to a server. Six selections are available.

Choosing a Connection Protocol

The following table describes the differences between the connections available with your WBT.

Table 9-1 New Connection Dialog Box

| Connection Protocol | Description |
|--|--|
| Citrix ICA Client | ICA (Independent Computing Architecture) protocol, which connects to an ICA (Winframe/Metaframe) server. See “ICA Connections” for further instructions about how to create this kind of connection. |
| Dial-Up Client | Connects using a modem and PPP (Point-to-Point Protocol). See “Dial-Up Connections” for further instructions about how to create this kind of connection. |
| Microsoft Remote Desktop Client | RDP (Remote Desktop Protocol), which connects to a WTS (Windows Terminal Server) server. See “RDP Connections” for further instructions about how to create this kind of connection. |
| Internet Explorer | Local browser (Internet Explorer) connection. See “Internet Explorer Connections” for further instructions about how to create this kind of connection. |
| Terminal Emulation | Connects to multiple terminal emulation applications. See “Terminal Emulation Connections” for further instructions about how to create this kind of connection. |

Once you have made your selection, click on **OK** to proceed with creating a connection.

**Note**

A **Use Printer Configuration Utility** check box is encountered in two places:

- (1) **Connection Manager** (Select an ICA Connection) | **Edit** | **Edit Connection Details** | **Options tab**, and
- (2) **Connection Manager** | **Add** | (Select **Citrix ICA Client** | Wizard leading to **Printing, Compression, Cache, Encryption and Sound** dialog box.

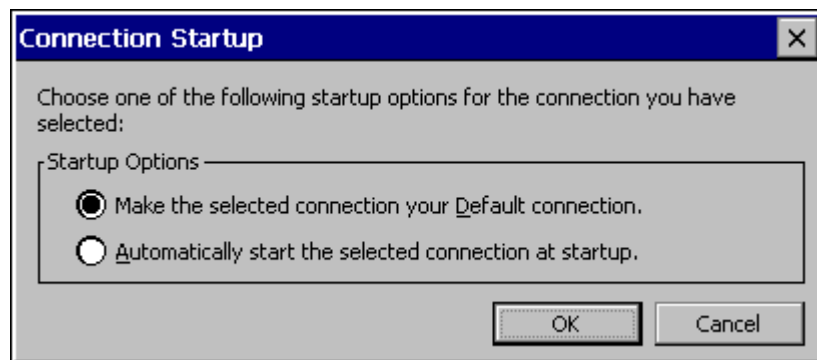
The box is checked by default. Uncheck the box if you desire to use the standard Windows printer setup. Also un-check the box for CDS printing.

Using the Startup Function

Your terminal can be set to automatically connect to a server when you turn your terminal on. This function is set using the **Connection Startup** dialog box. The following figure shows this dialog box.

Click on one of the two radio buttons in the **Startup Options** group box (in the **Connection Startup** dialog box above) to select a start-up option:

Figure 9-2 Connection Startup Dialog Box




To invoke the **Connection Startup** dialog box:

1. Click on the **Configure** tab in the **Connection Manager** dialog box.
2. Click on the **Startup** command button on the **Configure** properties sheet.

The following table describes the functions of this dialog box.

Table 9-2 Connection Startup Dialog Box

| Function | Description |
|---|--|
| Make the Selected Connection Your Default Connection | Click this radio button to use the connection you selected in the Connection Manager as the default connection. The default connection is the connection that always appears in the Connection Name list. |
| Automatically Start the Selected Connection at Startup | Click this radio button to start the connection you selected in the Connection Manager automatically at startup.  Note Autostart status may be modified for individual users using the Add/Modify User Account dialog box accessed from the Security tab. |



Note

The functions in the **Startup Options** group box are selected using radio buttons and are thus mutually exclusive.

10 ICA Connections

Use the **Specify Connection Type** dialog box to start configuring an ICA connection. The ICA protocol connects you to a server running Citrix WinFrame or MetaFrame.

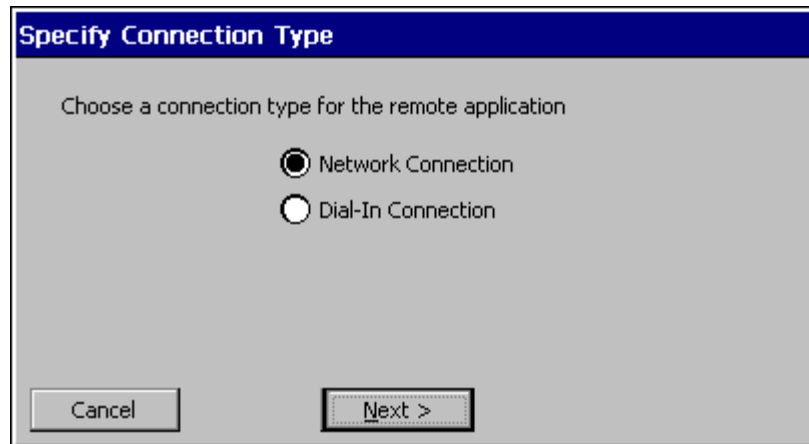
Using the ICA Connections Wizard

When the **New Connection** dialog box is open (see “Creating New Connections”):

1. Use the drop-down scroll list to select **Citrix ICA Client**.
2. Click on **OK**.

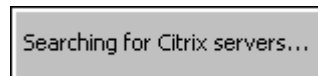
Figure 10-1 shows the **Specify Connection Type** dialog box. This is the first dialog box that appears in the series.

- **Network Connection**
 - Click on this radio button to create a network ICA connection. This type of connection requires a direct line to the network, such as 10Base-T. See “Network Connections.”
- **Dial-In Connection**
 - Click on this radio button to create a serial ICA connection. This type of connection is made using a modem or a direct connection. See “Dial-Up Connections.”

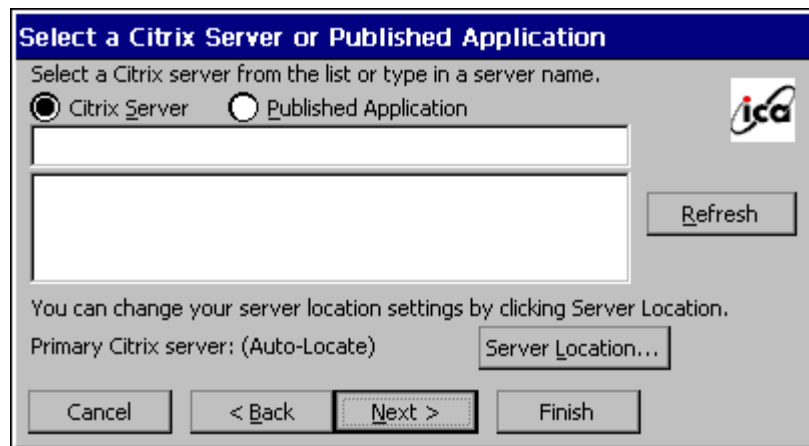
Figure 10-1 Specify Connection Type Dialog Box

Network Connections

Select **Network Connection**, then click on the **Next** button. A Citrix search message displays:

Figure 10-2 Citrix Search Message

If the connection is found, the following sequence of dialog boxes displays. Use them to set up your network ICA connection.

Figure 10-3 Select a Citrix Server or Published Application Dialog Box

To use the **Select a Server or Published Application** dialog box:

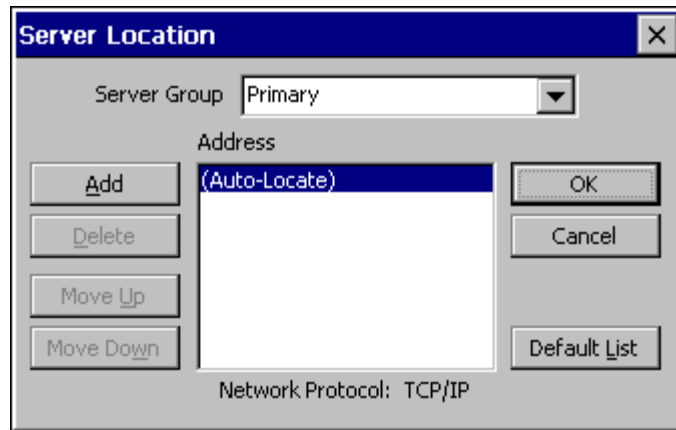
1. Click on either **Citrix Server** or **Published Application**.
2. Select a server or an application from the drop-down scroll list, or type the information in the text entry box.

**Note**

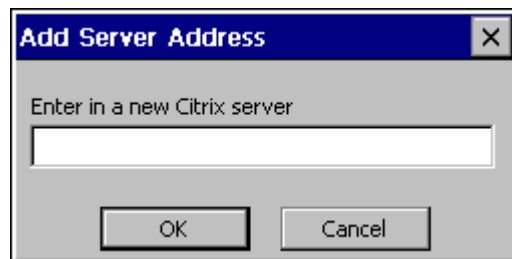
The **Refresh** command button refreshes the drop-down scroll list.

**Note**

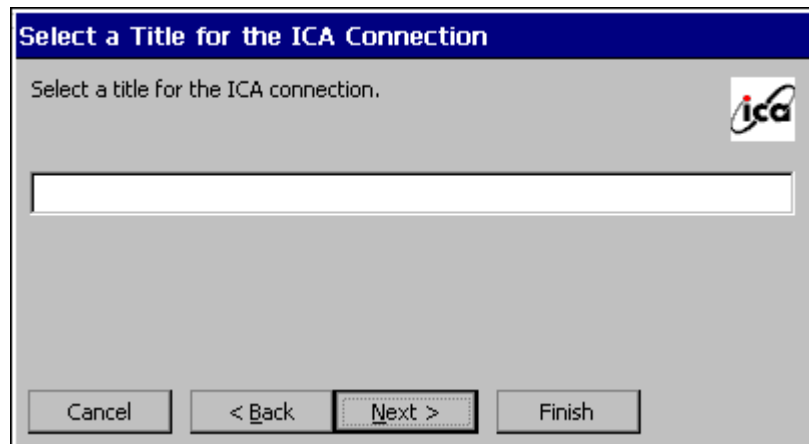
The **Server Location** command button invokes the **Server Location** dialog box. The server in **Server Location** will act as a master browser for creation of the **Address** list. See Figure 10-4.

Figure 10-4 Server Location Dialog Box

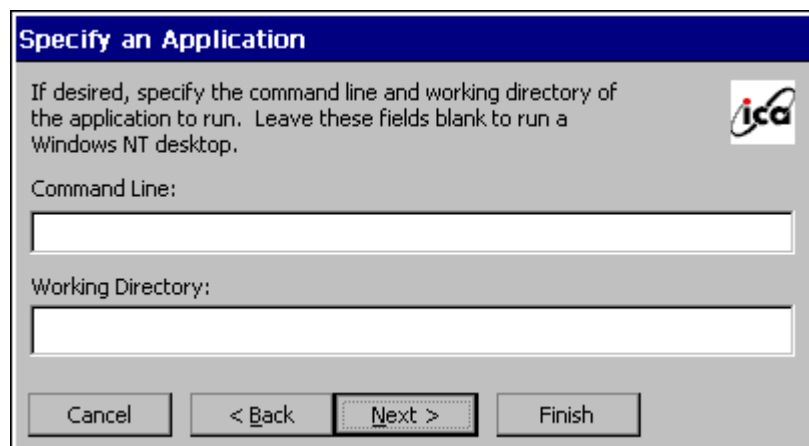
3. If you want to add a server name or IP address, click on the **Add** command button to invoke the **Add Server Address** dialog box.

Figure 10-5 Add Server Address Dialog Box

4. Enter the name or IP address of the Citrix server. Click on **OK** in this dialog box and then click on **OK** in the **Server Location** dialog box.
5. Click on **Next**.

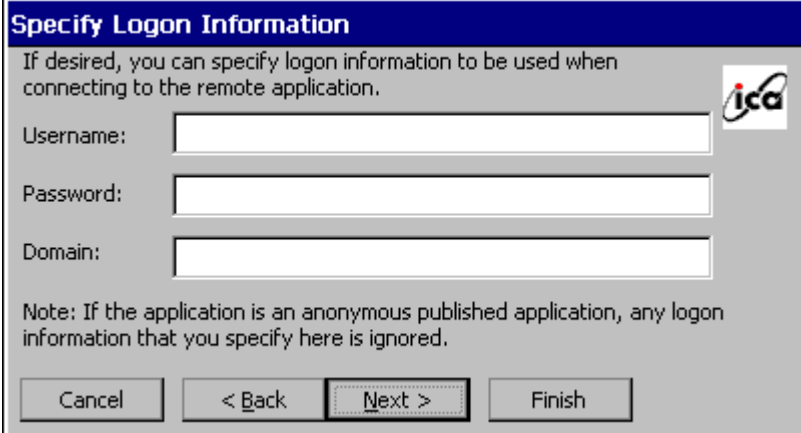
Figure 10-6 Select a Title for the ICA Connection Dialog Box

Enter a connection in the text box in the **Select a Title for the ICA Connection** dialog box, then click on **Finish**.

Figure 10-7 Specify an Application Dialog Box

To use the **Specify an Application** dialog box:

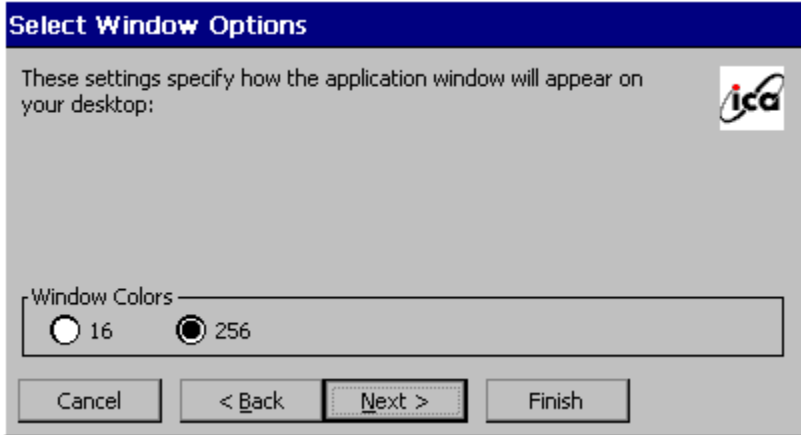
1. Enter the command line and directory of the application that you intend to invoke.
2. Click on **Next**.

Figure 10-8 Specify Logon Information Dialog Box

The dialog box has a blue title bar with the text "Specify Logon Information". Below the title bar, there is a grey area with the text: "If desired, you can specify logon information to be used when connecting to the remote application." To the right of this text is the ICA logo. Below the text are three text input fields labeled "Username:", "Password:", and "Domain:". At the bottom of the dialog box, there are four buttons: "Cancel", "< Back", "Next >", and "Finish". A note at the bottom left states: "Note: If the application is an anonymous published application, any logon information that you specify here is ignored."

To use the **Specify Logon Information** dialog box:

1. If needed, enter a user name, a password, and a domain for connecting to an application.
2. Click on **Next**.

Figure 10-9 Select Window Options Dialog Box

The dialog box has a blue title bar with the text "Select Window Options". Below the title bar, there is a grey area with the text: "These settings specify how the application window will appear on your desktop:" To the right of this text is the ICA logo. Below the text is a section labeled "Window Colors" with two radio buttons: "16" and "256". The "256" radio button is selected. At the bottom of the dialog box, there are four buttons: "Cancel", "< Back", "Next >", and "Finish".

To use the **Select Window Options** dialog box:

1. Click on the desired number of colors to display, **16**, **256**, (or **Thousands**).

Two or three radio buttons are displayed depending on the palette selected. If the terminal **Color Palette (Display properties sheet in Terminal Properties dialog box)** is **256 colors**, radio buttons for **16** or **256** colors are displayed. If **65536** is selected in the **Color Palette**, after restarting the terminal an additional radio button, **Thousands**, is displayed in this dialog box.

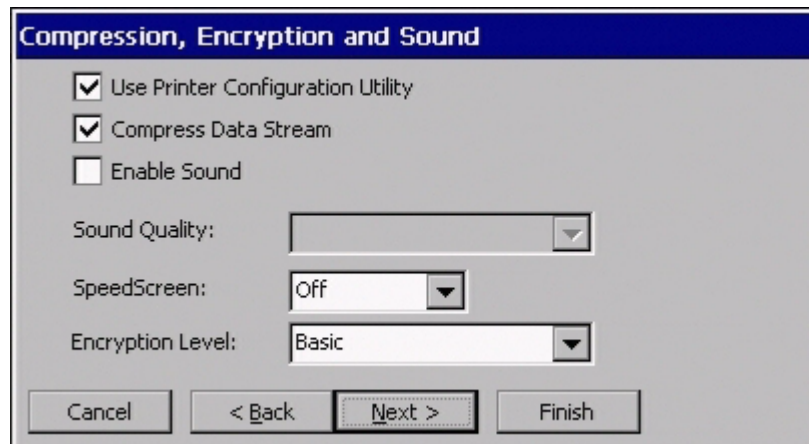


Note

The ICA server must be capable of supporting 16-bit color for the **Thousands** selection to work. If not, the terminal will display only 256 (8-bit) colors when **Thousands** is selected.

2. Click on **Next**.

Figure 10-10 Compression, Encryption and Sound Dialog Box



To use the **Compression, Encryption and Sound** dialog box:

1. Enable or disable the following functions:
 - a. **Use Printer Configuration Utility** check box - See "Local Printers."
 - a. **Compress Data Stream** check box - Applies compression.
 - b. **Enable Sound** check box and **Sound Quality** check box - **High**, **Medium**, and **Low** sound quality selectable with this function.
 - c. **SpeedScreen** drop-down menu - Allows selection of **Off** (default), **On**, or **Auto** for possible improvement of screen display performance.

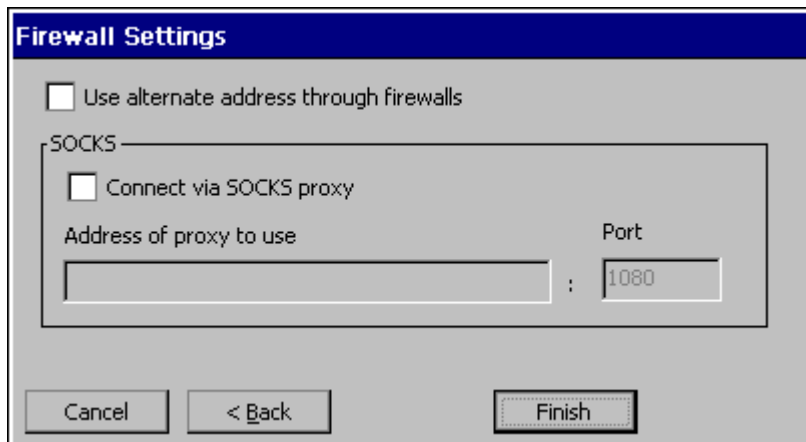
SpeedScreen is a latency reduction feature that enhances the user's experience on slower network connections. It echos local text to accelerate display of input text on the terminal and provides visual feedback for mouse clicks to show that the user's input is being processed.

- d. **Encryption Level** - Drop-down menu allows selection of the encryption level:

- Basic** (default)
 - RC5 (128 bit - Login Only)
 - RC5 (40 bit)
 - RC5 (56 bit)
 - RC5 (128 bit)

- 2. Click on **Next**.

Figure 10-11 Firewall Settings Dialog Box



- 1. Enable or disable the following functions:
 - a. **Use Alternate Address Through Firewalls**
 - b. **SOCKS**
 - c. **Connect Via SOCKS Proxy**
 - d. **Address of Proxy to Use**
 - e. **Port**
- 2. Click on **Finish**.

Dial-In Connection



Note

This section applies only to the SE Model terminals.

Choose **Dial-In Connection**, then click on the **Next** button. The following sequence of dialog boxes displays. Use them to set up your dial-in ICA connection.

Figure 10-12 Dial-In Devices Dialog Box

Dial-In Devices

Dial-In Device: Hayes Compatible on COM2: Configure

Area Phone Number Country

-

☐ Use Area and Country Codes

< Back Next > Cancel

To use the **Dial-In Devices** dialog box:

1. From the **Dial-In Device** drop-down scroll list, select one of the following:
 - a. A modem connection such as **Hayes Compatible on Com1**.
 - b. A serial connection such as **Serial Cable on Com1**.
2. Enter the area code, the phone number, and the country code in the appropriate fields.
3. Click on **Configure** to use the **Device Properties** dialog box. (See "Using the Device Properties Dialog box" for information on the **Device Properties** dialog box).
4. See Figure 10-6 through Figure 10-11 and the related text for information about the remainder of the dialog boxes in this sequence.

When you are finished with the configuration, the **Connection Manager** displays, listing your new ICA connection.

11 Dial-Up Connections

Use the **Dial-Up Configuration Wizard** to configure a dial-up connection. Dial-up connections use a modem and PPP to connect to a server.

Using the Dial-Up Configuration Wizard

From the **New Connection** dialog box (see “Creating New Connections”):

1. Use the drop-down scroll list to select **Dial-Up Client**.
2. Click on **OK**.

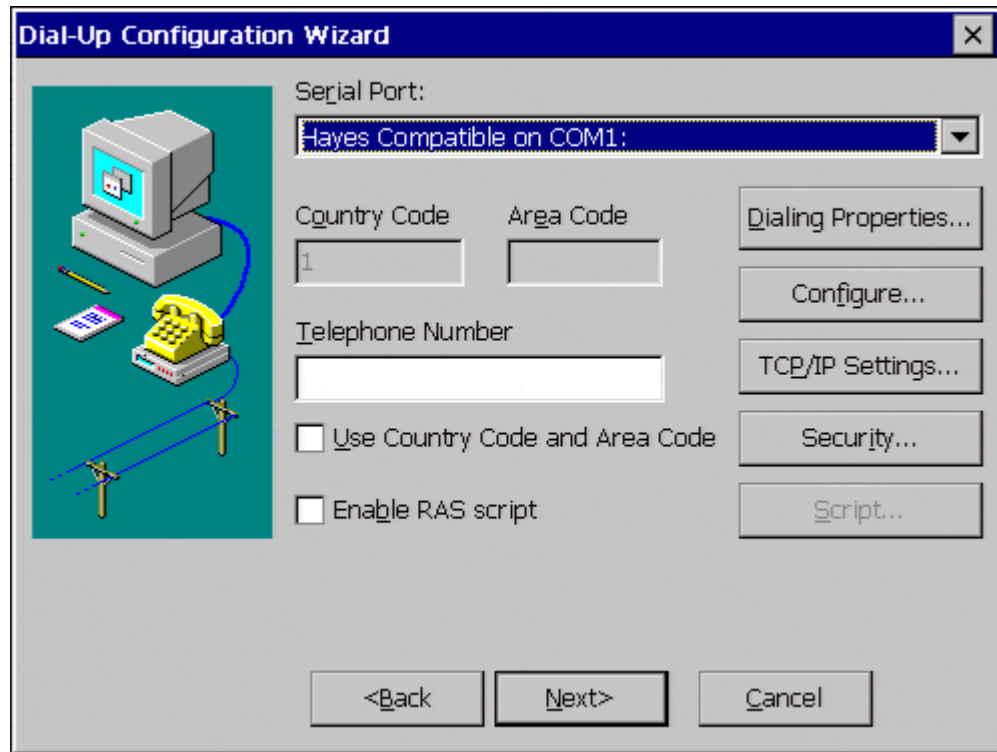
Following are the three dialog boxes that display in succession during a dial-up configuration process. When you are finished with the configuration, the new connection will be added to the **Connection Name** list in the **Connection Manager**. See Figure 11-1 to view the first dialog box of the wizard.

Figure 11-1 Dial-Up Configuration Wizard 1

To use the first dialog box:

1. Enter a name for your dial-up connection (a maximum of 20 characters but not <>()[]\.*?:",|).
2. Click on **Next**.

Figure 11-2 Dial-Up Configuration Wizard 2



To use the second dialog box of the wizard:

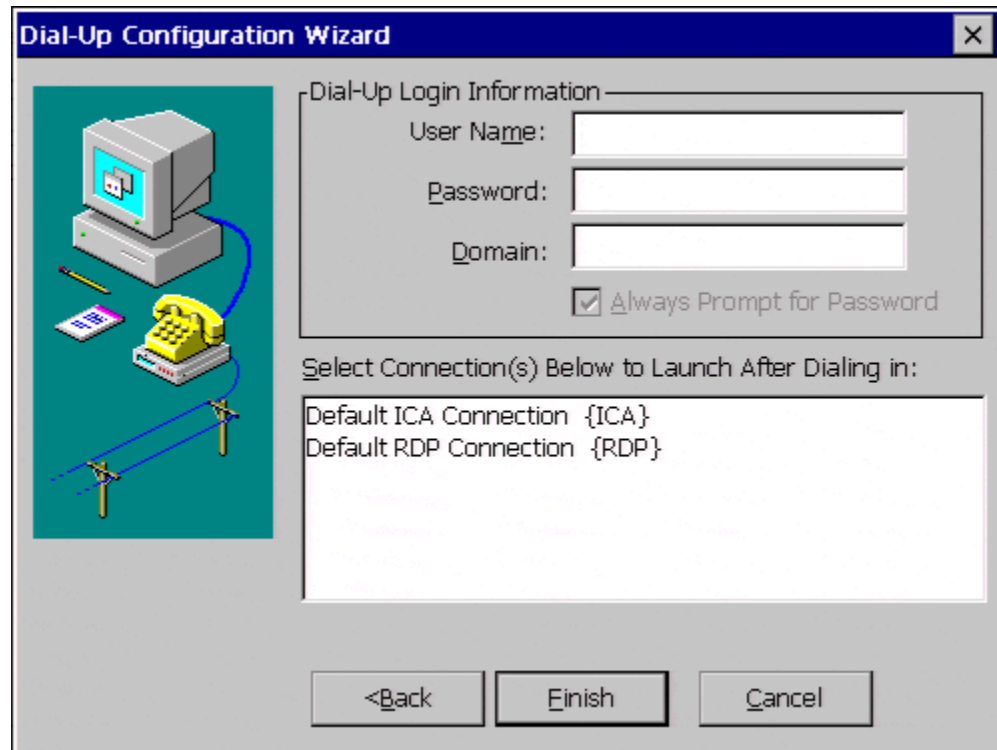
1. Select from the **Serial Port** drop-down scroll list one of the following:
 - a. A modem connection such as **Hayes Compatible on Com1**.
 - b. A cable connection (serial connection) such as **Serial Cable on Com1**.
2. Enter your information in the pertinent fields. **Country Code** and **Area Code** will activate if **Use Country Code and Area Code** is enabled.
3. Click on the **Dialing Properties** command button to open the **Dialing Properties** dialog box. See "Using the Dialing Properties Dialog Box" for details about this dialog box.
4. Click on the **Configure** command button to open the **Device Properties** dialog box. See "Using the Device Properties Dialog Box" for details about this dialog box.

5. Click on the **TCP/IP Settings** command button to open the **TCP/IP Settings** dialog box. See “**Dial-Up TCP/IP Settings and Security**” for details about this dialog box.
6. Click on the **Security** command button to open the **Security Settings** dialog box. See “**Dial-Up TCP/IP Settings and Security**” for details about this dialog box.
7. Check the **Enable RAS Script** check box, and click on the **Script** command button to open the **RAS Script** dialog box. See “**Dial-Up Scripts**” for details about this dialog box.
8. Click on **Next**. This opens the dialog box shown in Figure 11-3.

To use the dialog box:

1. Enter your information in the pertinent fields. If you do not know the information, contact your system administrator.
2. Click on **Finish**.

The **Connection Manager** displays, listing your new dial-up connection.

Figure 11-3 Dial-Up Configuration Wizard 3

12 Dial-Up Dialing Properties and Configuration

The following sections provide information about some of the elements of the **Dial-Up Configuration Wizard**. This chapter covers dialing properties and device properties. Dialing properties are set using the **Dialing Properties** dialog box (Figure 12-1). Device properties are set using the **Device Properties** dialog box (Figure 12-2).

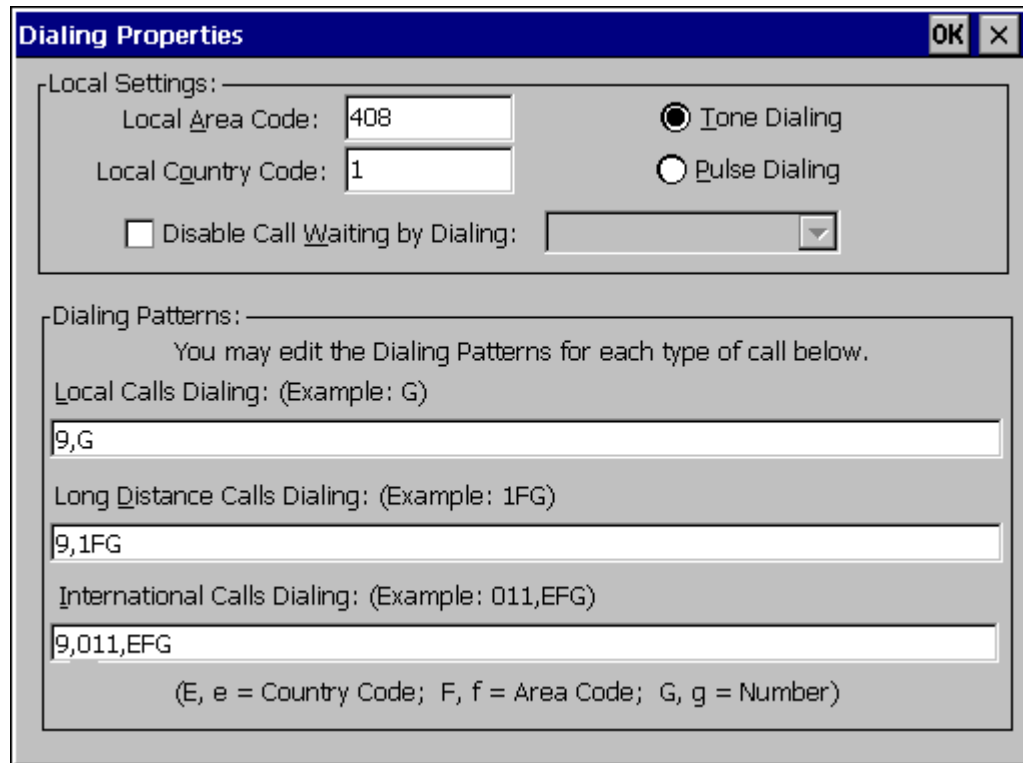


Note

See “Null Modem Cable Pin Assignments” for a suggested null modem cable for use with your terminal.

Using the Dialing Properties Dialog Box

Use the **Dialing Properties** dialog box to set the dialing properties for your dial-up connection. See “Dial-Up Connections” to find out how to invoke this dialog box.

Figure 12-1 Dialing Properties Dialog Box

Dialing Properties [OK] [X]

Local Settings: —

Local Area Code: 408

Local Country Code: 1

☐ Disable Call Waiting by Dialing: [v]

☒ Tone Dialing

☐ Pulse Dialing

Dialing Patterns: —

You may edit the Dialing Patterns for each type of call below.

Local Calls Dialing: (Example: G)

9,G

Long Distance Calls Dialing: (Example: 1FG)

9,1FG

International Calls Dialing: (Example: 011,EFG)

9,011,EFG

(E, e = Country Code; F, f = Area Code; G, g = Number)

The following table discusses the functions of the dialog box.

Table 12-1 Dialing Properties Dialog Box



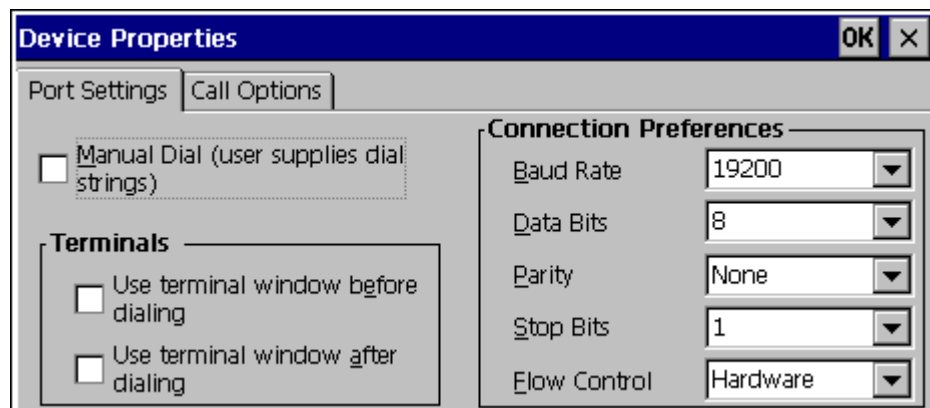
| Function | Description |
|----------------|--|
| Local Settings | <p>Set local dialing locale and dialing type in this group box.</p> <p>Local Area Code Enter the local area code that you want to use.</p> <p>Local Country Code Enter the local country code of the country to which you are dialing. The default for this field is 1.</p> <p> Note Refer to a phone directory for country codes.</p> <p>Disable Call Waiting by Dialing:</p> <ol style="list-style-type: none">1. Click on the check box.2. Select from the drop-down scroll list one of the following:<ul style="list-style-type: none">• *70, (default)• 70#,• 1170, <p>Tone Dialing Click on this radio button to enable tone dialing. Tone Dialing is the default.</p> <p>Pulse Dialing Click on this radio button to enable pulse dialing.</p> |

Table 12-1 Dialing Properties Dialog Box, Continued

| Function | Description |
|-------------------------|--|
| Dialing Patterns | Use this group box to set your modem's dialing patterns. |
| | <p>Local Calls Dialing Enter the local call dialing pattern. The default is 9,G.</p> <p>Local Long Distance Calls Dialing Enter the long distance call dialing pattern. The default is 9,1FG.</p> <p>International Calls Dialing Enter the international call dialing pattern. The default is 9,011,EFG.</p> |
| | <p> Note An explanation of the lettering scheme for dialing patterns is located below the function International Calls Dialing.</p> |

Using the Device Properties Dialog Box

Use the **Device Properties** dialog box to configure a device (modem) for a dial-up connection. See "Dial-Up Connections" to find out how to invoke this dialog box.

Figure 12-2 Device Properties Dialog Box

The **Device Properties** dialog box contains two properties sheets:

- **Port Settings**
- **Call Options**

The following sections discuss these properties sheets.

Port Settings

See Figure 12-2 to view the **Port Settings** properties sheet. It is the default of the **Device Properties** dialog box. The following table discusses the functions of this properties sheet.

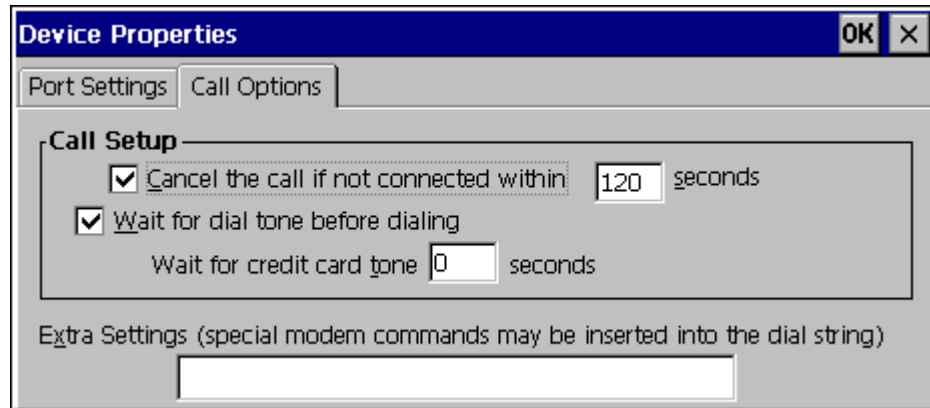
Table 12-2 Port Settings Properties Sheet

| Function | Description |
|------------------------|---|
| Manual Dial | Click on this check box to set up for manual dialing. |
| Terminals | Use this group box to record terminal windowing information: <ul style="list-style-type: none">• Use Terminal Window Before Dialing• Use Terminal Window After Dialing |
| Connection Preferences | Use this group box to set modem connection parameters. |

Call Options

Click on the **Call Options** tab to invoke the **Call Options** properties sheet.

Figure 12-3 Call Options Properties Sheet



The following table discusses the functions of this properties sheet.

Table 12-3 Call Options Properties Sheet

| Function | Description |
|-----------------------|---|
| Call Setup | <p>Use this group box to configure the following call parameters:</p> <p>Cancel the Call if Not Connected Within</p> <ol style="list-style-type: none"> 1. Enter in this field the number of seconds to wait before a call is canceled. The default is 120 with the function enabled. 2. Click the check box to enable the function. <p>Wait for Dial Tone Before Dialing</p> <p>Click on the check box to enable the function. By default this function is enabled.</p> <p>Wait for Credit Card Tone</p> <p>Enter in the field the period (in seconds) of time to wait. The default is 0.</p> |
| Extra Settings | <p>Use this field for special modem commands. See "Modem AT Commands" in Getting Help for more details.</p> |

13 Dial-Up TCP/IP Settings and Security

The following sections provide information about some of the elements of the **Dial-Up Configuration Wizard**. This chapter covers TCP/IP settings and dial-up security.

Using the TCP/IP Settings Dialog Box

Click on the **TCP/IP Settings** command button in the second dialog box of the **Dial-Up Configuration Wizard** to set TCP/IP dial-up settings. When this command button is pressed, the **TCP/IP Settings** dialog box displays. Figure 13-1 shows this dialog box.

Figure 13-1 TCP/IP Settings Dialog Box

The screenshot shows the 'TCP/IP Settings' dialog box with a blue title bar and 'OK' and 'X' buttons in the top right corner. The dialog contains several checkboxes and text input fields. The 'Use software compression' checkbox is checked. The 'Use IP header compression' checkbox is checked. The 'Use Slip' checkbox is unchecked. The 'Use assigned IP address' checkbox is unchecked, and it is grouped with an empty text input field. The 'Use Server-assigned addresses' checkbox is checked, and it is grouped with a larger container that includes four text input fields: 'Primary DNS', 'Secondary DNS', 'Primary WINS', and 'Secondary WINS'. The 'Use default gateway on remote network' checkbox is checked.

| | |
|---|--|
| <input checked="" type="checkbox"/> Use software compression | <input type="checkbox"/> Use assigned IP address |
| <input checked="" type="checkbox"/> Use IP header compression | <input type="text"/> |
| <input type="checkbox"/> Use Slip | |
| <input checked="" type="checkbox"/> Use Server-assigned addresses | |
| Primary DNS: <input type="text"/> | Primary WINS: <input type="text"/> |
| Secondary DNS: <input type="text"/> | Secondary WINS: <input type="text"/> |
| <input checked="" type="checkbox"/> Use default gateway on remote network | |

The following table discusses the functions in this dialog box.

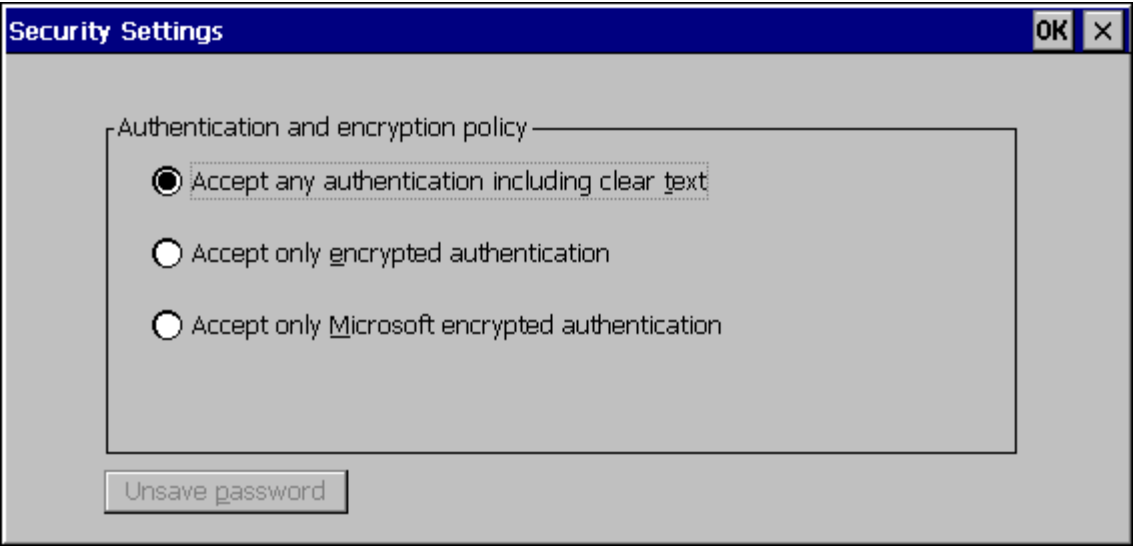
Table 13-1 TCP/IP Settings Dialog Box

| Function | Description |
|--|--|
| Use Software Compression | Click on this check box to enable this function. By default, this function is activated and enabled. |
| Use IP Header Compression | Click on this check box to enable Use IP Header Compression . By default, this function is activated and enabled. |
| Use SLIP | Click on this check box to enable this function. SLIP is Serial Line Internet Protocol. By default, this function is not enabled. |
| Use Assigned IP Address | Click here to activate this text box. By default, the text entry box is not activated. |
| Use Server-Assigned IP Addresses | Click here to disable server-assigned addresses and to activate the text entry boxes for typing-in addresses. By default, the check box is checked and the text entry boxes are not activated. |
| Use Default Gateway on Remote Network | Click on this check box to enable this function. By default, the function is activated and enabled. |

Using the Security Settings Dialog Box

Click on the **Security...** command button in the second dialog box of the **Dial-Up Configuration Wizard** to configure dial-up security. When this command button is pressed, the **Security Settings** dialog box displays. Figure 13-2 shows this dialog box.

Figure 13-2 Security Settings Dialog Box



The following table discusses the functions in this dialog box.

Table 13-2 Security Settings Dialog Box

| Function | Description |
|---|---|
| Accept Any Authentication Including Clear Text (default) | Click on this radio button to set your terminal to accept any authentication including clear text. Authentication determines whether a request originated from the correct user or application. |
| Accept Only Encrypted Authentication | Click on this radio button to set your terminal to accept only encrypted authentication. Encryption is a method of “hiding” data that is transmitted across a network. |
| Accept Only Microsoft Encrypted Authentication | Click on this radio button to set your terminal to accept only Microsoft encrypted authentication. |

14 Dial-Up Scripts

Dial-up RAS (Remote Access Services) scripts are enabled from the **Dial-Up Configuration Wizard** (see “Dial-Up Connections”). RAS facilitates PPP communications between the terminal (based on Windows CE) and other non-Windows operating systems.

Using the Dial-Up Scripts Dialog Boxes

Dial-up scripts dialog boxes are accessed by checking the **Enable RAS script** box and pressing the **Script** command button in the second panel of the **Dial-Up Configuration Wizard**. These dialog boxes automate actions that otherwise would be performed in text mode after dialing.

The **Script Name** dialog box (Figure 14-1) enables you to create a script under a new name, edit an existing script, or delete an existing script. Press the **New** button to open the **New Script Name** dialog box (Figure 14-2). Type the script name and press **OK**. This opens the **RAS Script** dialog box. You may also open the **RAS Script** dialog box to edit an existing script by selecting the script and pressing **Edit**. Table 14-1 describes the **RAS Script** dialog box. To delete a script, select it and press **Delete**.

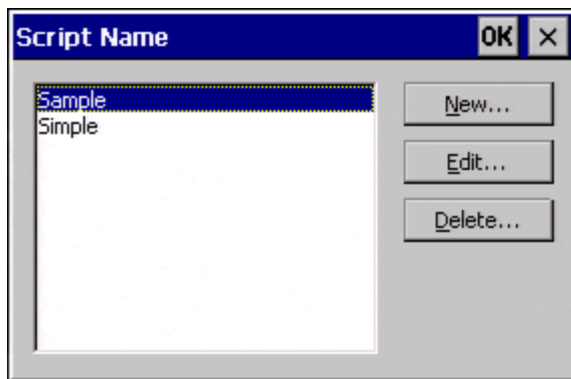
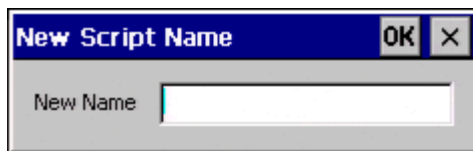
Figure 14-1 Script Name Dialog Box**Figure 14-2 New Script Name Dialog Box**

Figure 14-3 RAS Script Dialog Box

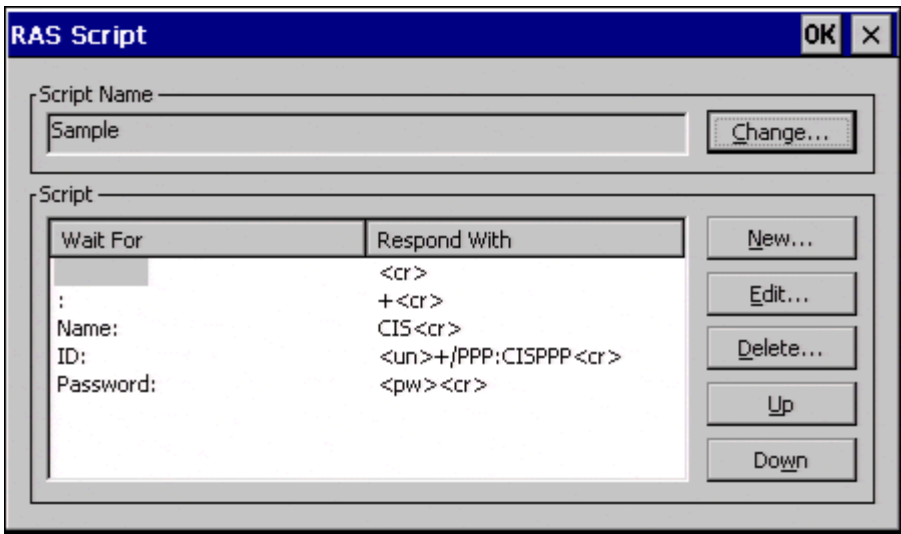


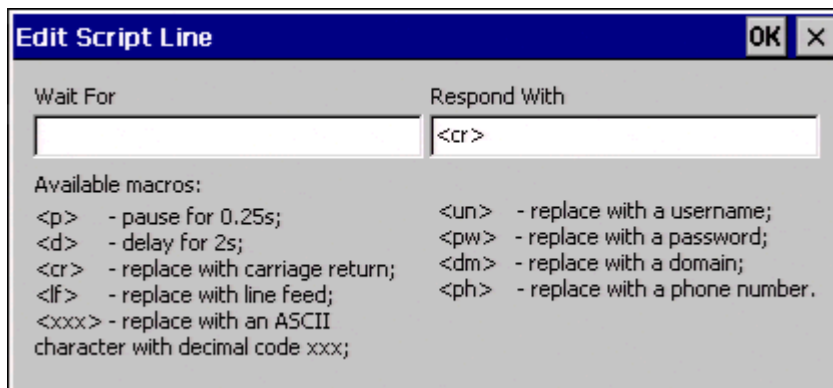
Table 14-1 RAS Script Dialog Box

| Function | Description |
|--|--|
| Script Name text box and Change button | The text box displays the name of the currently selected script. You may change the selection by clicking on the Change button to open the Script Name dialog box. Select another script and click OK . |
| Script area: Text Box | <p>Lists the script input/output strings:</p> <ul style="list-style-type: none">• Wait For - Displays strings received from the host.• Respond With - Displays what the terminal sends in response to the Wait For string. |

Table 14-1 RAS Script Dialog Box, Continued

| Function | Description |
|---|--|
| New and Edit buttons | New and Edit open the Edit Script Line dialog box (see Figure 14-4). Use this dialog box to create a new line in the script or edit an existing (selected) line. The specific scripts are unique to each target system. |
| Up , Down , Delete buttons | Use Up and Down to move a selected line in the script up or down in the list. To delete a line, select it and press Delete . You will be prompted to confirm deletion of the line. |

Figure 14-4 Edit Script Line Dialog Box



15 RDP Connections

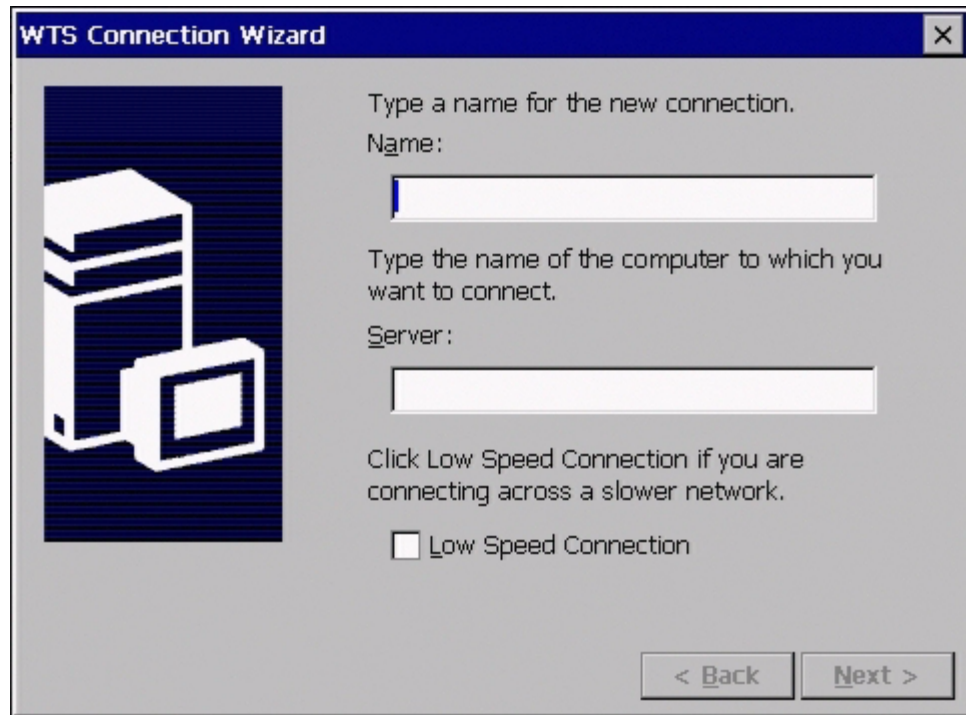
Use the **WTS Connection Wizard** to configure an RDP connection. RDP connects to a server running Microsoft WTS (Windows Terminal Server).

Using the WTS Connection Wizard

When the **New Connection** dialog box is open (see “Creating New Connections”):

1. Use the drop-down scroll list to select **Microsoft Remote Desktop Client**.
2. Click on **OK**.

Following are the four dialog boxes that display in succession during the configuration process. When you are finished with the wizard, the new connection will be added to the **Connection Name** list in the **Connection Manager**. Figure 15-1 shows the first dialog box of this wizard.

Figure 15-1 WTS Connection Wizard 1

To use the first dialog box:

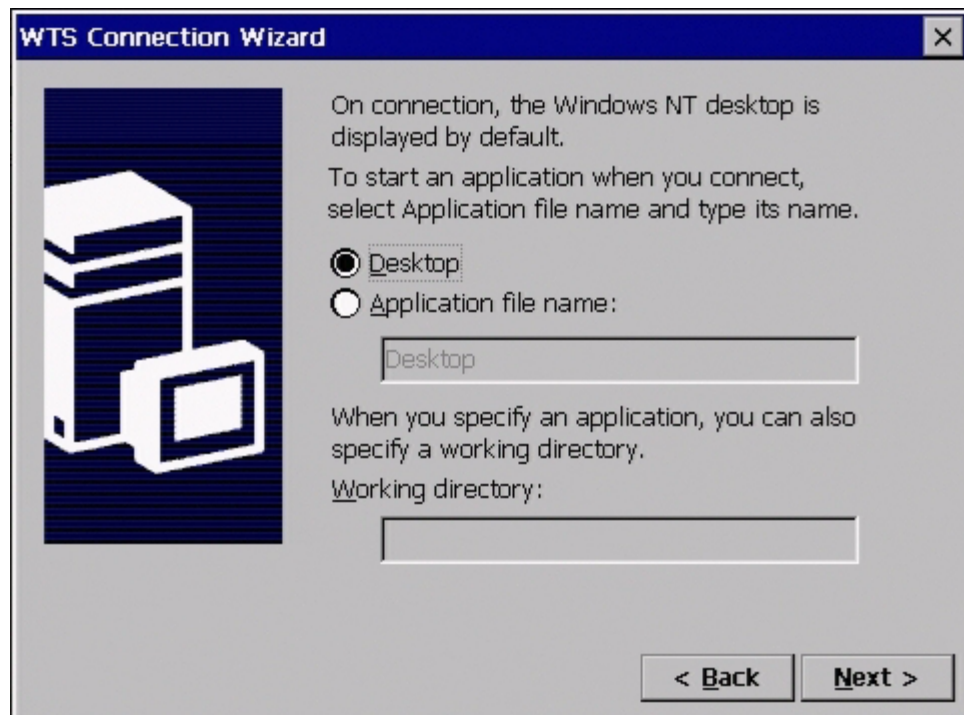
1. Enter a name for your dial-up connection in **Name**.
2. Enter the name or IP address of the server in **Server**.
3. Check the **Low Speed Connection** check box if appropriate.
4. Click on **Next**.

Figure 15-2 WTS Connection Wizard 2

To use the second dialog box:

1. Check the **Automatic Logon** check box if appropriate.
2. Enter a user name, password, and a domain to complete the information.
3. Click on **Next**.

Figure 15-3 WTS Connection Wizard 3



To use the third dialog box in the wizard:

1. Click on either the **Desktop** or **Application File Name** radio buttons.
2. If you clicked on **Desktop**, click on **Next**.
3. If you clicked on **Application File Name**:
 - a. Enter the name of the application.
 - b. Enter the name of the directory where it resides.
 - c. Click on **Next**.

Figure 15-4 WTS Connection Wizard 4

To use the fourth dialog box, click on **Finish**. The **Connection Manager** displays, listing your new RDP connection.

16 Terminal Emulation Connections

Using the TE Client Connection Wizard

When the **New Connection** dialog box is open (see “Creating New Connections”):

1. Use the drop-down scroll list to select **Terminal Emulation**.
2. Click on **OK**.

Following are the three dialog boxes of this wizard. When you are finished configuring a connection, the new connection will be added to the **Connection Name** list in the **Connection Manager**. Figure 16-1 shows the first dialog box of this wizard.

Figure 16-1 TE Client Connection Wizard - Connection Information

The screenshot shows a dialog box titled "TE Client Connection Wizard - Connection Information". It contains three input fields: "Connection Name:" (a text box), "Emulation:" (a scroll list showing "VT400 7-Bit"), and "VT TerminalID:" (a scroll list showing "vt420"). Below these fields is a button labeled "International Settings". At the bottom of the dialog are three buttons: "<Back", "Next>", and "Cancel".

To use the **Connection Information** dialog box:

1. Enter the connection name in **Connection Name** text box.
2. Select the emulation type in the **Emulation** scroll list.
3. Select the terminal type from the **VT TerminalID** scroll list. Table 16-1 describes the available functions in the **VT TerminalID** scroll list.
4. Click on **Next** to continue to the **Host Information** dialog box (Figure 16-3).

**Note**

Depending on the emulation chosen, the appearance of the **TE Client Connection Wizard -Connection Information** dialog box changes, to provide for selecting appropriate parameters for that emulation. These are described in Table 16-1.

Table 16-1 Terminal Emulation and Terminal Type

| Terminal Emulation | Terminal Type |
|--|--|
| Select Emulation : VT52, VT100, VT400 7-Bit (default), or VT400 8-Bit | Then select from VT TerminalID : vt100, vt101, vt102, vt125, vt220, vt240, vt320, vt340, vt420 (default), vt131 , or vt132 |
| Select Emulation : ANSI BBS, SCO Console, WY50, WY50+, TVI910, TVI920, TVI925, TVI955, ADDS A2, HZ1500, or WY60 | The function is deactivated. |
| Select Emulation : IBM3151 | Then select from IBM3151 Model : 11 (default), 31 |
| Select Emulation : IBM3270 | <ol style="list-style-type: none"> Then select from IBM 3270 Model: 3278-2, 3278-3, 3278-4, 3278-5, 3278-2-E (default), 3278-3-E, 3278-4-E, 3278-5-E, 3279-2, 3279-3, 3279-4, 3279-5, or 3287-1 Check the Right Ctrl Acts as Enter Key or the Left Ctrl Acts as Reset Key check boxes if you want these functions enabled for 3270 emulation. |
| Select Emulation : IBM5250 | <ol style="list-style-type: none"> Select from IBM 5250 Model: 5291-1, 5292-2, 5251-11, 3179-2 (default), 3196-A1, 3180-2, 3477-FC, 3477-FG, 3486-BA, 3487-HA, 3487-HC, or 3812-1 Check the IBM5250 Monochrome, Left Ctrl Acts as Reset Key, Right Ctrl Acts as Enter Key, or the Carriage Return acts as Enter Key check boxes if you want these functions enabled for 5250 emulation. |

Table 16-1 Terminal Emulation and Terminal Type, Continued

| Terminal Emulation | Terminal Type |
|---|--|
| Select Emulation : HP70092 | Then select from HP Model : 2392A, 70092 (default), 2622A |
| International Settings | Opens the International Settings dialog box (see Figure 16-2). The particular controls and selections that appear in this dialog box depends on the terminal emulation selected. Make keyboard, character set, and other selections in this dialog box as applicable. |

Figure 16-2 International Settings Dialog Box

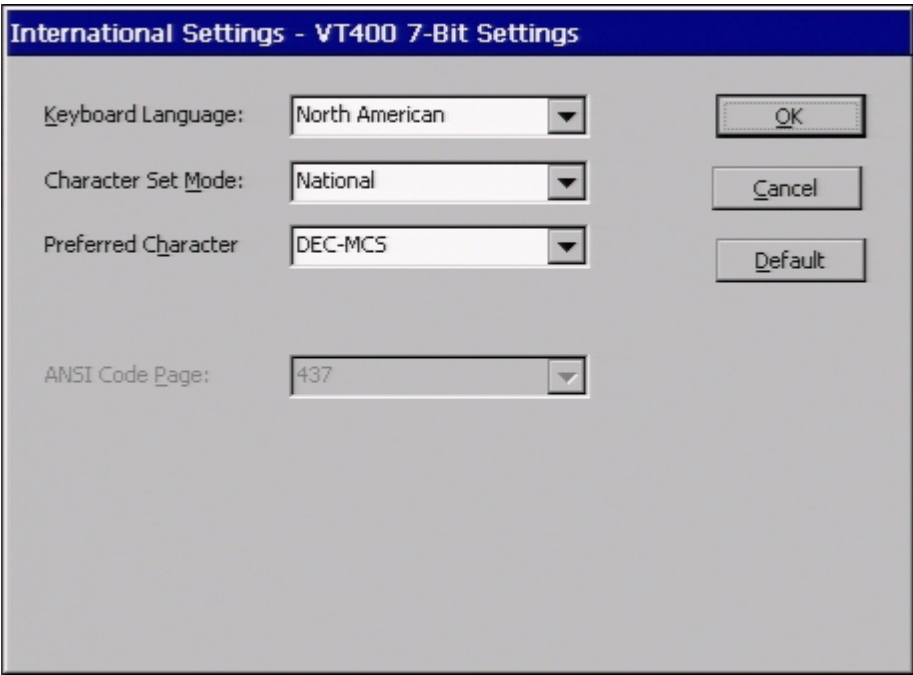


Figure 16-3 TE Client Connection Wizard - Host Information

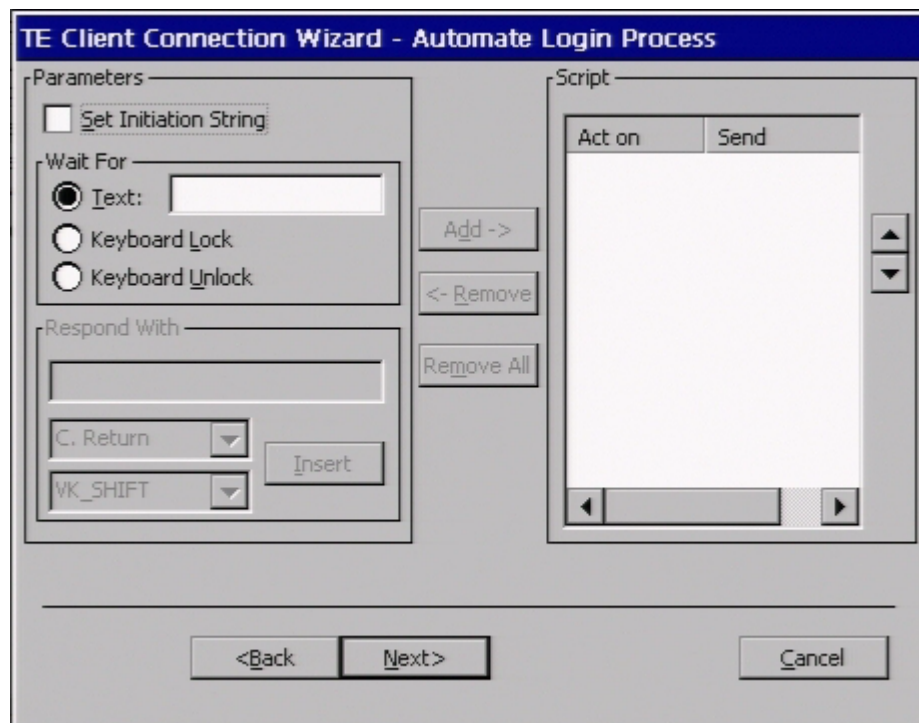
The screenshot shows a Windows-style dialog box titled "TE Client Connection Wizard - Host Information". Inside the dialog, there is a section labeled "Connection Type" with three radio buttons: "TCP/IP" (which is selected), "Modem", and "Serial". To the right of these radio buttons are three input fields: "Host Name:" with a text box, "Configuration Name:" with a dropdown menu showing "<New Session>", and "Connect to:" with a dropdown menu showing "Serial Cable on COM1:". Below these fields is an "Advanced..." button. At the bottom of the dialog, there are three buttons: "<Back", "Next>", and "Cancel".

To use the **Host Information** dialog box:

1. Click on **TCP/IP**, **Modem**, or **Serial**:
2. If you clicked on **TCP/IP**:
 - a. Enter the host name or IP address in **Host Name**.
 - b. Use the **Advanced** command button if appropriate. (See "Using the TCP/IP Telnet Configuration Dialog Box" for information about the **Advanced** command button).
 - c. Click on **Next**. The **Automate Login Process** dialog box displays. See Figure 16-4 and proceed with these instructions.
3. If you clicked on **Modem**:
 - a. Select a configuration from **Configuration Name**.
 - b. Use the **Configure** command button if appropriate. (See "Using the Modem Settings Dialog Box" for information about the **Configure** command button).

- c. Click on **Next**. The **Automate Login Process** dialog box displays. See Figure 16-4 and proceed with these instructions.
4. If you clicked on **Serial**:
 - a. Make a selection from **Connect To**.
 - b. Use the **Configure** command button if appropriate. (See “Using the Configuration of Serial Cable on Com1 (or Com2) Dialog Box” for information about the **Configure** command button).
 - c. Click on **Next**. The **Automate Login Process** dialog box displays. See Figure 16-4 and proceed with these instructions.

Figure 16-4 TE Client Connection Wizard - Automate Login Process



To use the **Automate Login Process** dialog box:

1. Fill in the **Parameters** group box as appropriate using the following functions:
 - a. **Set Initiation String** - Set the scripts initiation string.
 - b. **Wait For** - Act on an selected event in the **Act On** list such as **login**.

- c. **Respond With** - The scroll list receives input from the **Insert** command button and the **Insert** command button inserts an item from the scroll list.
2. Use the **Add** and **Remove** command buttons to add or remove lines from the **Script** scroll list.
3. Use the **Remove All** command button to remove all the scripts from the **Script** scroll list.
4. Select a script from the **Script** scroll list as appropriate.
5. Click on **Next** to open the **Printer Port Settings** dialog box.

Figure 16-5 TE Client Connection Wizard - Printer Port Settings

The screenshot shows a dialog box titled "TE Client Connection Wizard - Printer Port Settings". It contains the following elements:

- A checkbox labeled "Use Network Printer (LPR)".
- A "Printer Port:" label followed by a dropdown menu showing "Parallel Cable on LPT1:".
- An "LPD Hostname:" label followed by a text input field.
- A "Configure" button to the right of the LPD Hostname field.
- Three checkboxes below: "FormFeed Terminator", "Translate National Characters", and "Auto Line Feed".
- At the bottom, three buttons: "<Back", "Next>", and "Cancel".

To use the **Printer Port Settings** dialog box:

1. Check the **Use Network Printer** box if you want to print from a printer in your network. Checking this box enables **LPD Hostname** text box and the **FormFeed Terminator**, **Translate National Characters**, and **Auto Line Feed** check boxes. Enter the IP address or DNS name of the LPD host, and make check box selections appropriate to the application and printer used.

2. Select a printer port from the **Printer Port** list:

Parallel Cable on LPT1: (default)

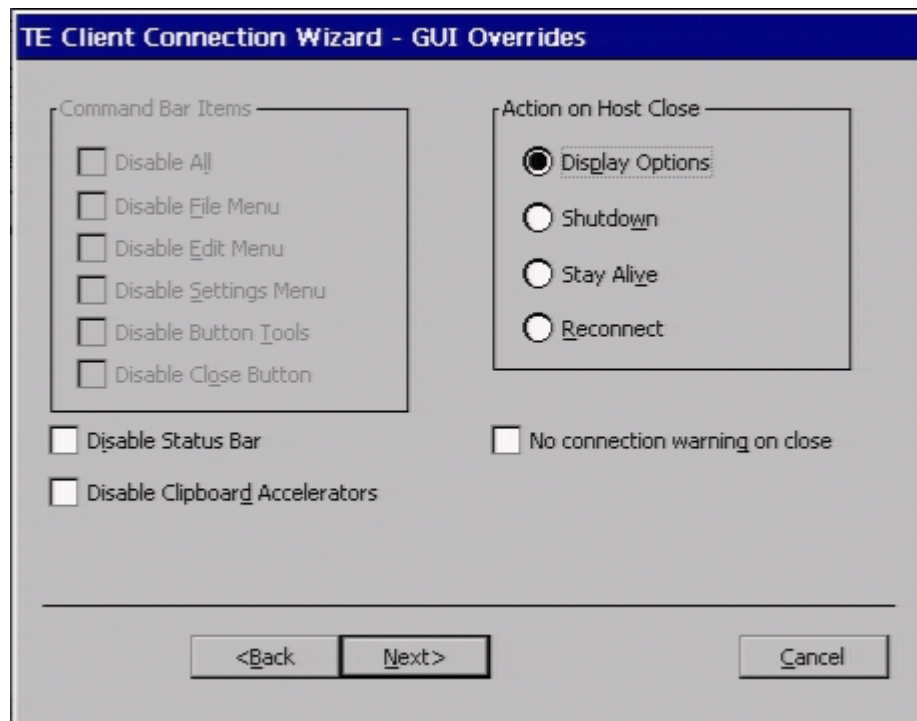
Serial Cable on COM1:

Serial Cable on COM2:

Selecting either of the serial printer ports enables the **Configure** command button, which opens the **Configuration of COM1 (or COM2)** dialog box. For details about the available selections in this dialog box see "Using the Configuration of Serial Cable on Com1 (or Com2) Dialog Box" .

3. Click on **Next**. This will open the **GUI Overrides** dialog box.

Figure 16-6 TE Client Connection Wizard - GUI Overrides



To use the **GUI Overrides** dialog box:

1. Select the appropriate functions from **Command Bar Items** list box. Command bar items are the menus on the top bar of the terminal emulation user interface.

**Note**

After choosing Command Bar Items as an administrator, the terminal must be logged-in as a user to see the effect on the terminal session. Terminal security must be enabled.

2. Select the appropriate function from **Action on Host Close**. These functions are actions that will take place when the terminal emulation session is closed.
3. Click on the **Disable Status Bar** or **No Connection Warning on Close** check boxes as appropriate. **Disable Status Bar** deactivates the status bar in a terminal emulation session and **No Connection Warning on Close** deactivates any kind of warning before a session closes.

Click on **Finish**. The **Connection Manager** displays, listing your new terminal emulation connection.

17 TCP/IP Telnet Configuration



Note

The information in this chapter applies to the terminal emulation connection only.

Using the TCP/IP Telnet Configuration Dialog Box

The **Advanced** command button on the **TE Client Connection Wizard - Host Information** dialog box invokes the **TCP/IP Telnet Configuration** dialog box. Figure 17-1 shows this dialog box.

Figure 17-1 TCP/IP Telnet Configuration Dialog Box

TCP/IP Telnet Configuration [OK] [X]

Host Port Number: 23 Telnet Name: vt420

Local Port Number: 0

Suppress

- ☐ Echo
- ☒ 3270 Regime
- ☐ IN3270E 3270 Options
- ☐ TN5250E 5250 Options

Force Negotiation

- Binary: No
- EOR: No

Break Settings

- ☒ TM with Break
- ☐ CR with Break

The following table discusses the functions of a Telnet connection.

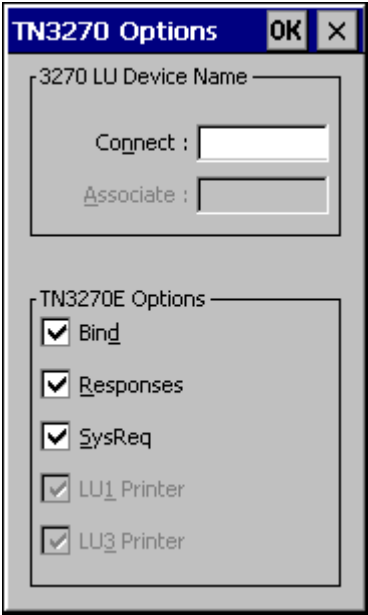
Table 17-1 TCP/IP Telnet Configuration

| Function | Description |
|--------------------------|--|
| Host Port Number | Enter the Telnet host port number. The default is 23 . |
| Local Port Number | Implemented to allow connection to Misys hosts. This allows the host to communicate back to the emulator on a different port than the emulator uses to talk to the host. The default is 0 . |
| Telnet Name | Enter the Telnet virtual terminal name. The default depends on emulation (VT400, 7-bit, default is vt420). |
| Suppress | Use the functions of this group box as needed (controls in this area become active depending on the type of emulation selected): <ul style="list-style-type: none">• Echo (default)• 3270 Regime• TN3270E• TN5250E |
| Force Negotiation | Use the Binary and EOR drop-down scroll lists to configure negotiation parameters. The default for Binary is No and the default for EOR is No . |
| Break Settings | Use the TM with Break and CR with Break check boxes to configure break settings. |

Table 17-1 TCP/IP Telnet Configuration, Continued

| Function | Description |
|----------|-------------|
|----------|-------------|

The following image shows the **TN3270 Options** dialog box, displayed when the **3270 Options** command button is pressed.



Use this dialog box to set up 3270 options:
3270 LU Device Name - This group box is used to identify the LU (Logical Unit).
TN3270E Options - This group box is used to set TN3270E options. The options are:
Bind - BIND (Berkeley Internet Name Domain) DNS server
Responses - System response
SysReq - System requests

 **Note**
Associate, **LU1 Printer**, and **LU3 Printer** are deactivated.

Table 17-1 TCP/IP Telnet Configuration, Continued

| Function | Description |
|----------|-------------|
|----------|-------------|

- TN5250 Options

The following dialog box shows the **TN5250 Options** dialog box, displayed when the **5250 Options** command button is pressed.



Use this dialog box to set up 5250 options. The options are:

Device Name - Name of the device assigned to a Telnet session.

User, Password, Library, and Menu - Initial entries on a standard startup screen.

Program - Name of the initial program.

**Note**

All entries are 10 characters or less.

Using the Modem Settings Dialog Box

The **Configure** command button invokes the **Modem Settings** dialog box. Figure 17-2 shows this dialog box.

Figure 17-2 Modem Settings Dialog Box



The following table discusses the available modem settings.

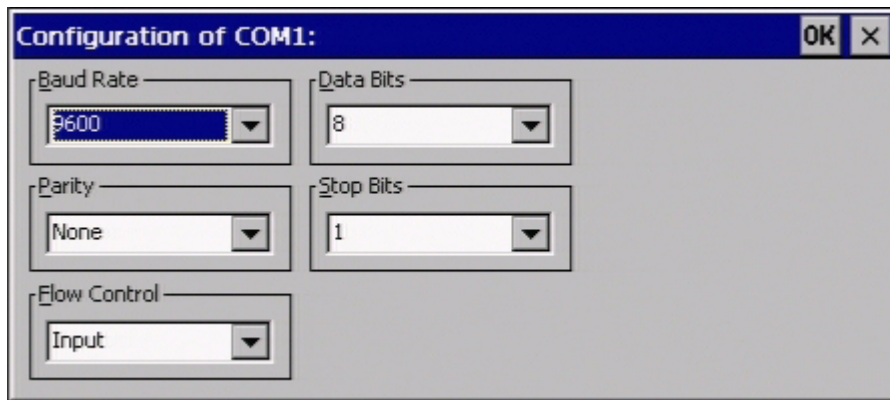
Table 17-2 Modem Settings Dialog Box

| Function | Description |
|---------------------|--|
| Configuration Name | Enter the name of your configuration. |
| Select a Modem | Select a modem from the drop-down scroll list. |
| Configure | Opens the Device Properties dialog box. See “Using the Device Properties Dialog Box” for information about this function. |
| Area Code | Enter the area code in this text box. |
| Telephone Number | Enter the telephone number in this text box. |
| Country Code | Enter the country code in this text box. |
| Dialing From: | This field automatically lists where you are calling from. |
| Dialing Properties | SSee “Dial-Up Dialing Properties and Configuration” for information about this function. |
| Force Long Distance | Check this box to force long distance calling. |
| Force Local | Check this box to force local calling. |

Using the Configuration of Serial Cable on Com1 (or Com2) Dialog Box

This dialog box opens when the **Configure** command button is pressed for a serial connection type selection. Figure 17-3 shows this dialog box.

Figure 17-3 Configuration of Serial Cable on Com1 (or Com2) Dialog Box



The following table discusses this dialog box.

Table 17-3 Configuration of Serial Cable on Com1 (or Com2) Dialog Box

| Function | Description |
|--|---|
| Configuration of a Serial Cable on Com1 or Com2 | <p>Use these functions to configure a serial cable:</p> <ul style="list-style-type: none">• Baud Rate• Parity• Flow Control• Data Bits• Stop Bits• Transmit Limit <p>Each is presented as a drop-down scroll list. Click on the upper-right down arrow to display the list and select a value. The defaults are listed (consecutive to the Function list to the left) as follows:</p> <ul style="list-style-type: none">• 9600• None• Input• 8• 1• Unlimited |
| Local Echo | <p>Check this check box if you want transmitted characters to appear on the dialup terminal window. Not needed if the destination machine has remote echo turned on.</p> |

18 Internet Explorer Connections



Note

Internet Explorer requires that a minimum of 16 MB of flash memory and 32 MB of RAM is installed on the terminal. The installed memory is listed on the **Terminal Properties** window **SysInfo** and **General** tabs.

When the **New Connection** dialog box is open (see “Creating New Connections”):

1. Use the drop-down scroll list to select **Internet Explorer**.
2. Click on **OK**.

This opens the **Internet Explorer Setup** dialog box (Figure 18-1).

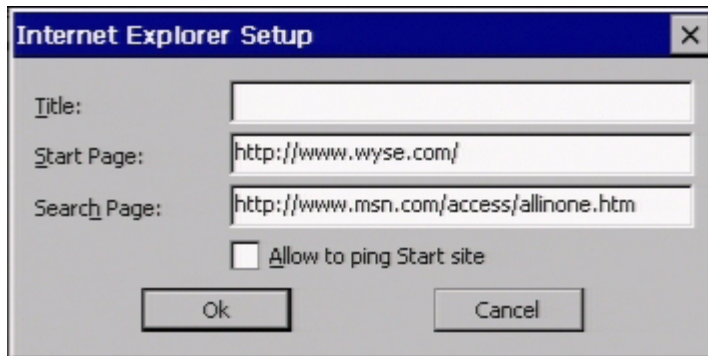
3. Type a **Title** for the connection.
4. Enter the URLs of your choice for the **Start** and **Search** pages.
5. If this server is to be included in failover, check the **Allow to ping Start Site** check box.



Note

To help decide whether you should check this box, refer to the chapter on “Failover” in this section.

6. Click on **OK**.

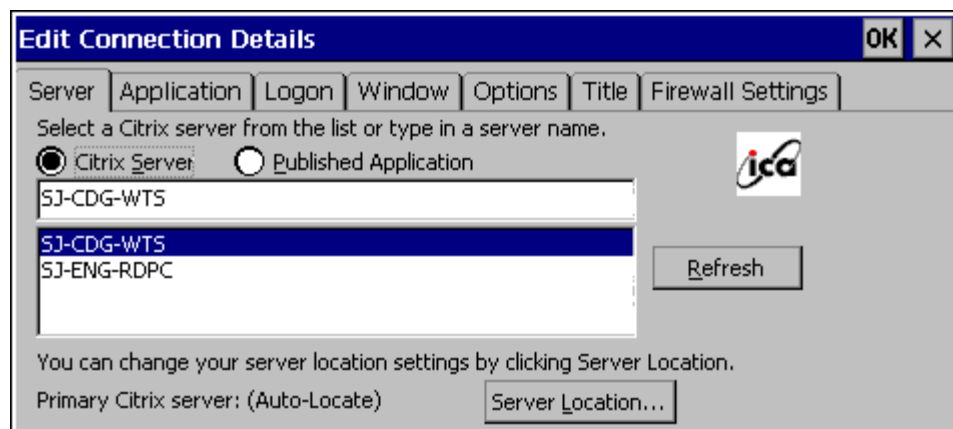
Figure 18-1 Internet Explorer Setup Dialog Box**Note**

If the connection is to an NFuse server that provides ICA links within a Web page to allow ICA sessions to be launched from within a browser window, refer to “NFuse Server Configuration Requirements” for information concerning limitations on the NFuse server application setup for use with Model T10x0 series terminals.

19 Editing ICA Connections

The **Connection Manager** lets you edit individual ICA connection parameters. It is done through the **Edit Connection Details** dialog box. The following figure shows this dialog box.

Figure 19-1 Edit Connection Details Dialog Box



Using the Edit Connection Details Dialog Box

The **Edit Connection Properties** dialog box consists of seven properties sheets. Use any or all of these properties sheets to edit connection parameters. To invoke the dialog box:

1. Click on the **Configure** tab in the **Connection Manager** dialog box.
2. Click to select an ICA connection from the Connections Name list.
3. Click on the **Edit** command button on the **Configure** properties sheet.

Using the Server Properties Sheet

The **Server** properties sheet is displayed by default for the dialog box. Table 19-1 describes the functions of the **Server** properties sheet.

Table 19-1 Server Properties Sheet

| Function | Description |
|--|--|
| Select a Citrix Server From the List or Type in a server Name | Click on: <ul style="list-style-type: none">• Citrix Server Enable this radio button to connect to a Citrix server.• Published Application Enable this radio button to connect directly to an application. |
| Server Location | Click on this command button to invoke the Server Location Dialog Box . Server Group Select from a scroll list: <ul style="list-style-type: none">• Primary• Backup 1• Backup 2 Primary is the default. Add Click on this command button to add a server to the list. |

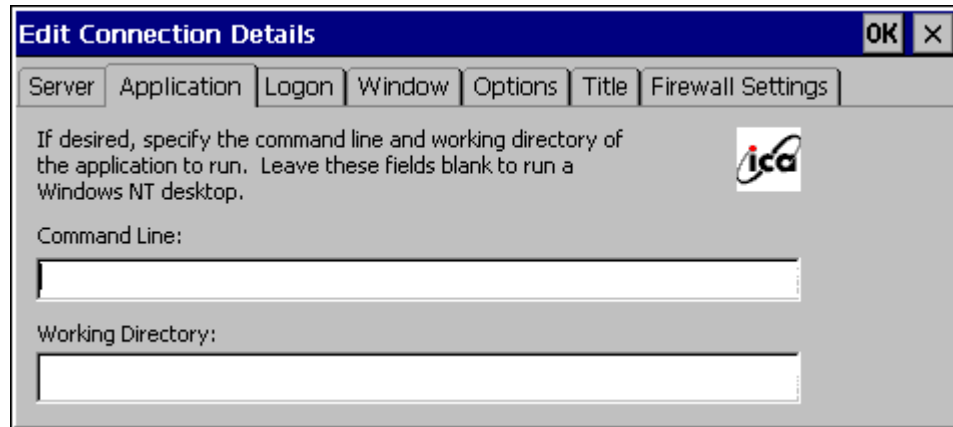
Table 19-1 Server Properties Sheet, Continued

| Function | Description |
|----------|---|
| | Delete Click on this command button to delete a server from the list: <ol style="list-style-type: none">1. Select a server from the list.2. Click on the Delete command button. |
| | Move Up Click on this command button to move a server up the list: <ol style="list-style-type: none">1. Select a server to move up.2. Click on the Move Up command button. |
| | Move Down Click on this command button to move a server down the list: <ol style="list-style-type: none">1. Select a server to move down.2. Click on the Move Down command button. |
| | Address Lists the servers. |
| | Default List Lists the default servers. |
| | Network Protocol Lists the network protocol used by the server. |

Using the Application Properties Sheet

The **Application** properties sheet is shown in Figure 19-2.

Figure 19-2 Application Properties Sheet



Invoke the properties sheet by clicking on the **Application** tab. Table 19-2 describes the functions of the properties sheet.

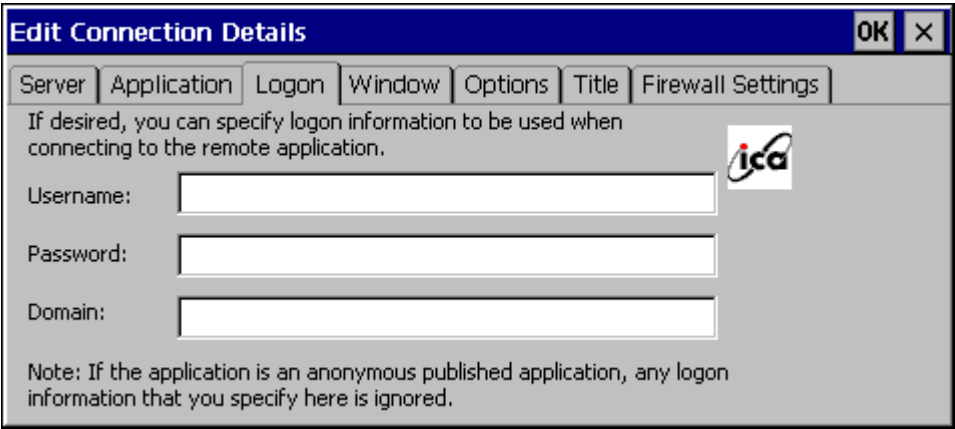
Table 19-2 Application Properties Sheet

| Function | Description |
|--------------------------|--|
| Command Line | Enter the command line used to invoke the application. |
| Working Directory | Enter the directory where the application is stored. |

Using the Logon Properties Sheet

The **Logon** properties sheet is shown in Figure 19-3.

Figure 19-3 Logon Properties Sheet



Invoke the properties sheet by clicking on the **Logon** tab. Table 19-3 describes the functions of the **Logon** properties sheet.

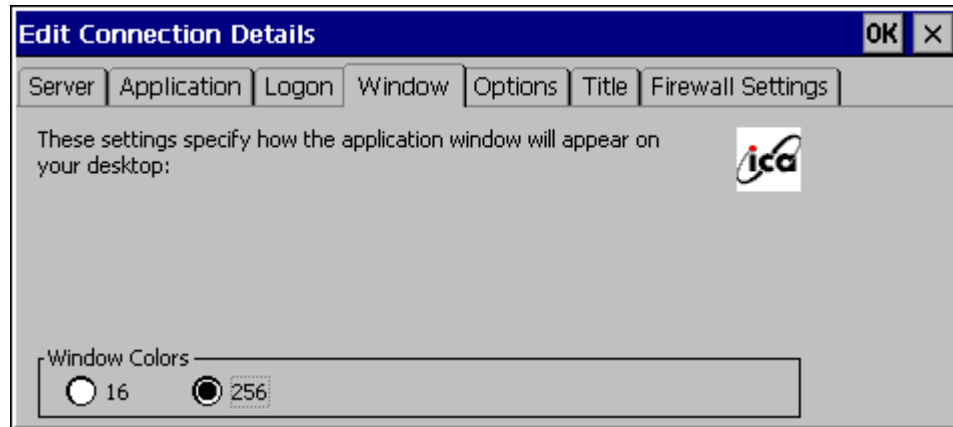
Table 19-3 Logon Properties Sheet

| Function | Description |
|----------|--|
| Username | Enter the user name used to log into the server. |
| Password | Enter the password used to log into the server. |
| Domain | Enter the domain name of the server. |

Using the Window Properties Sheet


The **Window** properties sheet is shown in the following figure.

Figure 19-4 Window Properties Sheet



Invoke the properties sheet by clicking on the **Window** tab. Table 19-4 describes the functions of the **Window** properties sheet.

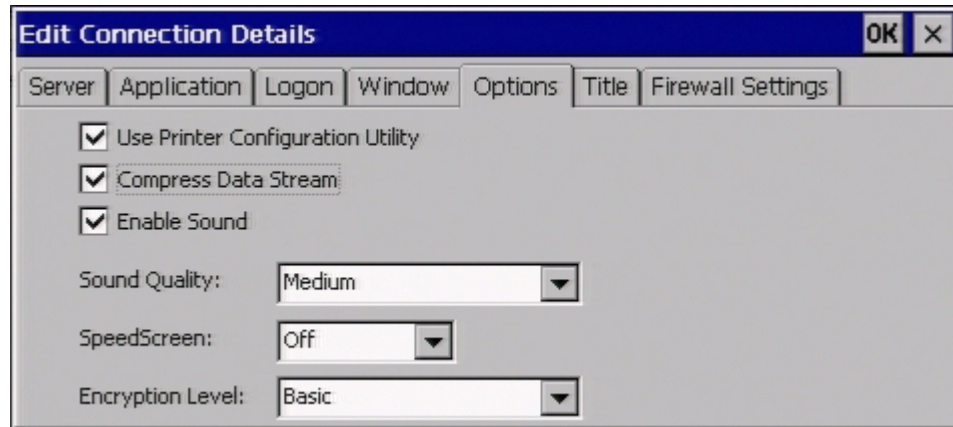
Table 19-4 Window Properties Sheet

| Function | Description |
|---------------|--|
| Window Colors | <p>Two or three radio buttons are displayed. If the terminal Color Palette (using the Display properties sheet in the Terminal Properties dialog box) is 256 colors, radio buttons for 16 or 256 colors are displayed. If 65536 is selected in the Color Palette, after restarting the terminal an additional radio button, Thousands, is displayed.</p> <p> Note</p> <p>The ICA server must be capable of supporting 16-bit color for the Thousands selection to work. If not, the terminal will display only 256 (8-bit) colors when Thousands is selected.</p> <p>When using a PPP connection, 16 color mode may provide faster performance. If the window options specified exceed the capabilities of the client hardware, the maximum size and color depth supported by the CE operating system are used.</p> |

Using the Options Properties Sheet

The **Options** properties sheet is shown in Figure 19-5.

Figure 19-5 Options Properties Sheet



Invoke the properties sheet by clicking on the **Options** tab. Table 19-5 describes the functions of the **Options** properties sheet.

Table 19-5 Options Properties Sheet

| Function | Description |
|--|--|
| Use Printer Configuration Utility | Check this box (default) to allow creation of a new printer in the ICA Client Printer dialog box on the ICA server. Uncheck to use Windows to add a printer. |
| Compress Data Stream | Check this check box to enable compressed data streaming. By default the box is checked. |
| Enable Sound | Check this check box to enable sound. By default the box is checked. |
| Sound Quality | Select from: <ul style="list-style-type: none"> • High • Medium (default) • Low |

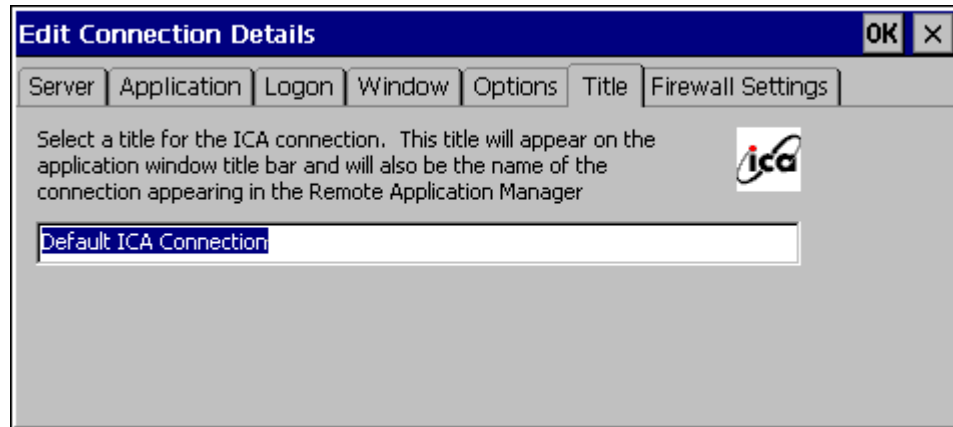
Table 19-5 Options Properties Sheet, Continued

| Function | Description |
|-------------------------|---|
| SpeedScreen | <p>Drop-down list box. Select from:</p> <ul style="list-style-type: none">• Off (default)• On• Auto <p>SpeedScreen is a combination of technologies implemented in ICA that decreases bandwidth consumption and total packets transmitted, resulting in reduced latency and consistent performance regardless of the network connection. SpeedScreen is not available when connecting to MetaFrame for UNIX 1.0 and 1.1 servers.</p> |
| Encryption Level | <p>Select from:</p> <ul style="list-style-type: none">• Basic (8 bit) (default)• 40 (40 bit)• 56 (56)• 128 (128)• 128-bit Logon |

Using the Title Properties Sheet

The **Title** properties sheet is shown in Figure 19-6.

Figure 19-6 Title Properties Sheet

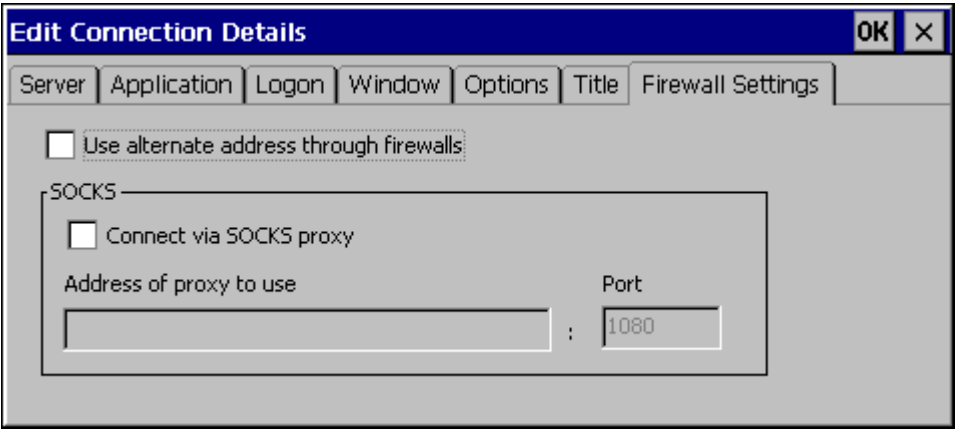


This properties sheet contains only one function. Enter the title of your ICA connection in the text box on the sheet.

Using the Firewall Settings Properties Sheet

The **Firewall Settings** properties sheet is shown in Figure 19-7.

Figure 19-7 Firewall Settings Properties Sheet



Invoke this properties sheet by clicking on the **Firewall Settings** tab. Table 19-6 describes the functions of the properties sheet.

Table 19-6 Firewall Settings Properties Sheet

| Function | Description |
|--|--|
| Use Alternate Address Through Firewalls | Click on this check box to enable the function. By default the box is unchecked. |
| SOCKS | SOCKS (Socket Secure) is networking proxy protocol. It enables hosts on one side of a SOCKS server to gain access to hosts on the other side of the SOCKS server. The SOCKS server authenticates and authorizes the requests, establishes a proxy connection, and relays data. |
| | Connect Via SOCKS Proxy Click on this check box to enable connection to a SOCKS proxy server. By default the check box is unchecked. |

Table 19-6 Firewall Settings Properties Sheet, Continued

| Function | Description |
|----------|--|
| | <p>Address of Proxy to Use Enter in this text box the IP address of the SOCKS proxy server. Activate this box by clicking on Connect Via SOCKS Proxy. By default this box is deactivated.</p> <p>Port Enter the port number to connect to. Activate this box by clicking on Connect Via SOCKS Proxy. By default this box is deactivated.</p> |

20 Editing RDP, Dial-Up, and Terminal Emulation Connections

Dial-Up and Terminal Emulation Connections

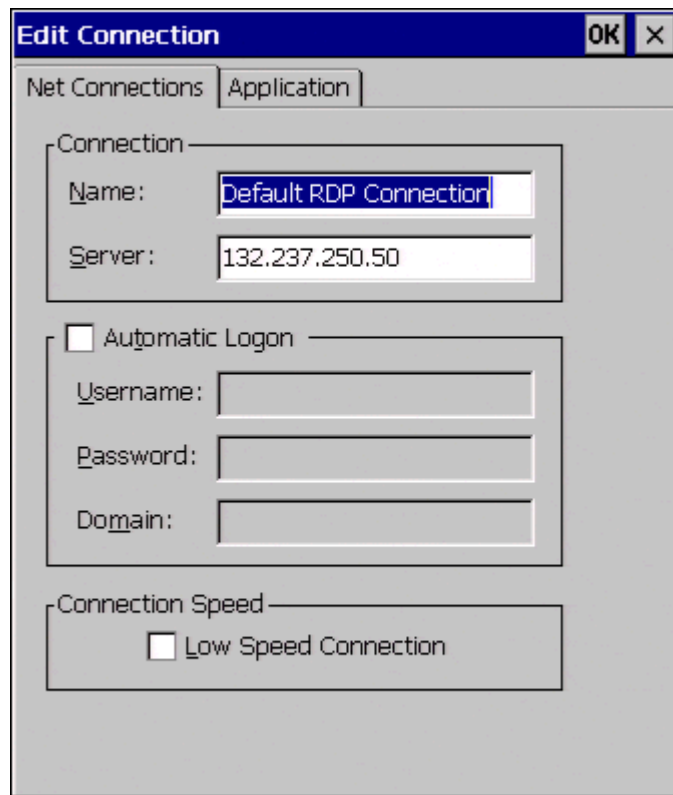
Edit dial-up and terminal emulation connections through the **Connection Manager**:

1. Click on the **Configure** tab.
2. Click to select a connection from the **Connection Name** list.
3. Click on the **Edit** command button.

To edit a dial-up connection you invoke the **Dial-Up Configuration Wizard**. See “Dial-Up Connections” for detailed information about using this wizard. To edit terminal emulation you invoke the **TE Client Connection Properties** dialog box. See “Terminal Emulation Connections” for detailed information.

RDP Connections

The **Connection Manager** lets you edit individual RDP connection parameters. It is done through the **Edit Connection** dialog box. The following figure shows the **Edit Connection** dialog box.

Figure 20-1 Edit Connection Dialog Box

Using the Edit Connection Dialog Box

The **Edit Connection** dialog box includes two properties sheets. Depending on your connections configuration, you use one of these properties sheets to edit connection parameters. To invoke the dialog box:

1. Click on the **Configure** tab in the **Connection Manager** dialog box
1. Click on an RDP connection in the Connections Name list.
2. Click on the **Edit** command button on the **Configure** properties sheet.

Using the Net Connections Properties Sheet

The **Net Connections** properties sheet is displayed by default for the **Edit Connection** dialog box. Use this properties sheet to reconfigure the network portion of the connection.

Table 20-1 describes the functions of the **Net Connections** properties sheet.

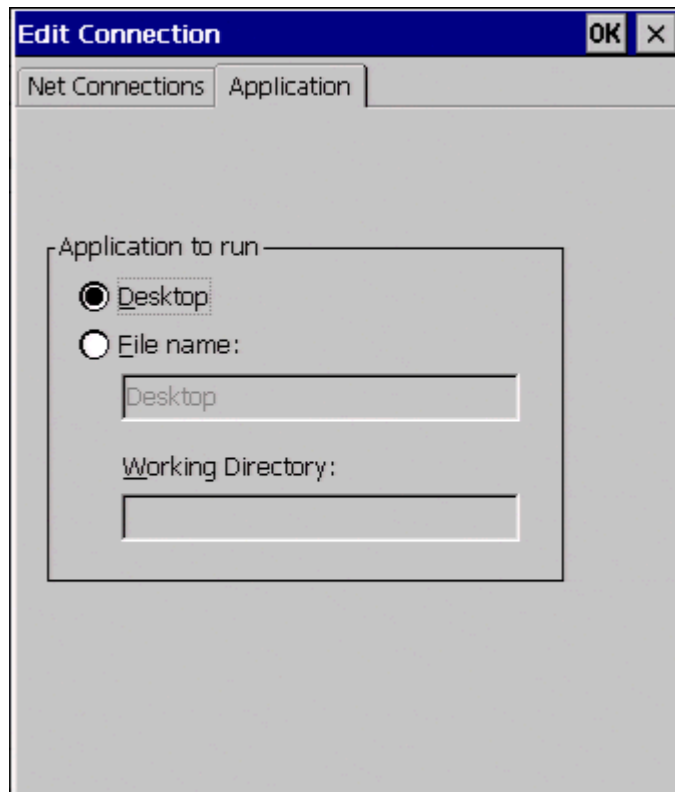
Table 20-1 Net Connections Properties Sheet

| Function | Description |
|------------------|---|
| Connection | <p>Select a connection from the Connection Name list in the Terminal Connection Manager. Use the following functions to change the connection's network parameters:</p> <p>Name Enter the name of the connection in this field. When OK is selected, your changes will be saved and Name will replace what was selected.</p> <p>Server Enter the address of the server in this field.</p> |
| Automatic Logon | <p>Click on this check box to enable automatic logon for your terminal. Enabling this function enables the Username, Password, and Domain fields:</p> <p>Username Enter your user name.</p> <p>Password Enter your password.</p> <p>Domain Enter your domain.</p> |
| Connection Speed | <p>Low Speed Connection Click on this to enable low-speed connection. This function is used when connecting with a modem.</p> |

Using the Application Properties Sheet


Invoke the **Application** properties sheet by clicking on the **Application** tab in the **Edit Connection** dialog box. Use this properties sheet to reconfigure the applications-related portion of the connection. Figure 20-2 shows this sheet.


Figure 20-2 Application Properties Sheet



The following table describes the functions of the **Application** properties sheet.

Table 20-2 Application Properties Sheet

| Function | Description |
|--------------------|---|
| Application to Run | <p>Select a connection from the Connection Name list in the Terminal Connection Manager. Use the following functions to specify an application to run when the connection is made.</p> <p>Desktop Click on this radio button to open the desktop when the connection is made. When selected, the File Name and Working Directory text boxes are disabled.</p> <p>File Name Click on this radio button and in the associated text box enter the full path name of an application that will run.</p> <p>Working Directory Enter the path to the working directory that the application will use.</p> <p> Note The terminal will not create a new directory if the entered working directory does not exist.</p> |

 **Note**
Desktop and **File Name** are mutually exclusive. **File Name** must be selected in order to use the **File Name** and **Working Directory** fields.

External Devices

- 26 Devices Properties**
- 27 Managing Network Adapters**
- 28 Add-On**
- 29 Aironet Wireless LAN Adapter Setup**
- 30 PC Card Adapters for Modems**
- 31 Touchscreens**
- 32 Date/Time Properties**
- 33 JETCET PRINT**
- 34 Local Printers**
- 35 PC Card Adapters for Token Ring Networks**
- 36 SNTP Client**
- 37 PC Card Adapters for Wireless Networks**
- 38 Volume Properties**

21 Devices Properties

Figure 21-1 shows the **Devices** properties sheets for the SE models and LE models, respectively.

To open the **Devices** properties sheet,

1. Press **F2** to open the **Terminal Properties** dialog box.
2. Click on the **Devices** tab in the **Terminal Properties** dialog box.

Devices Properties Sheet

Table 21-1 describes the functions of this properties sheet.

Figure 21-1 Devices Properties Sheet

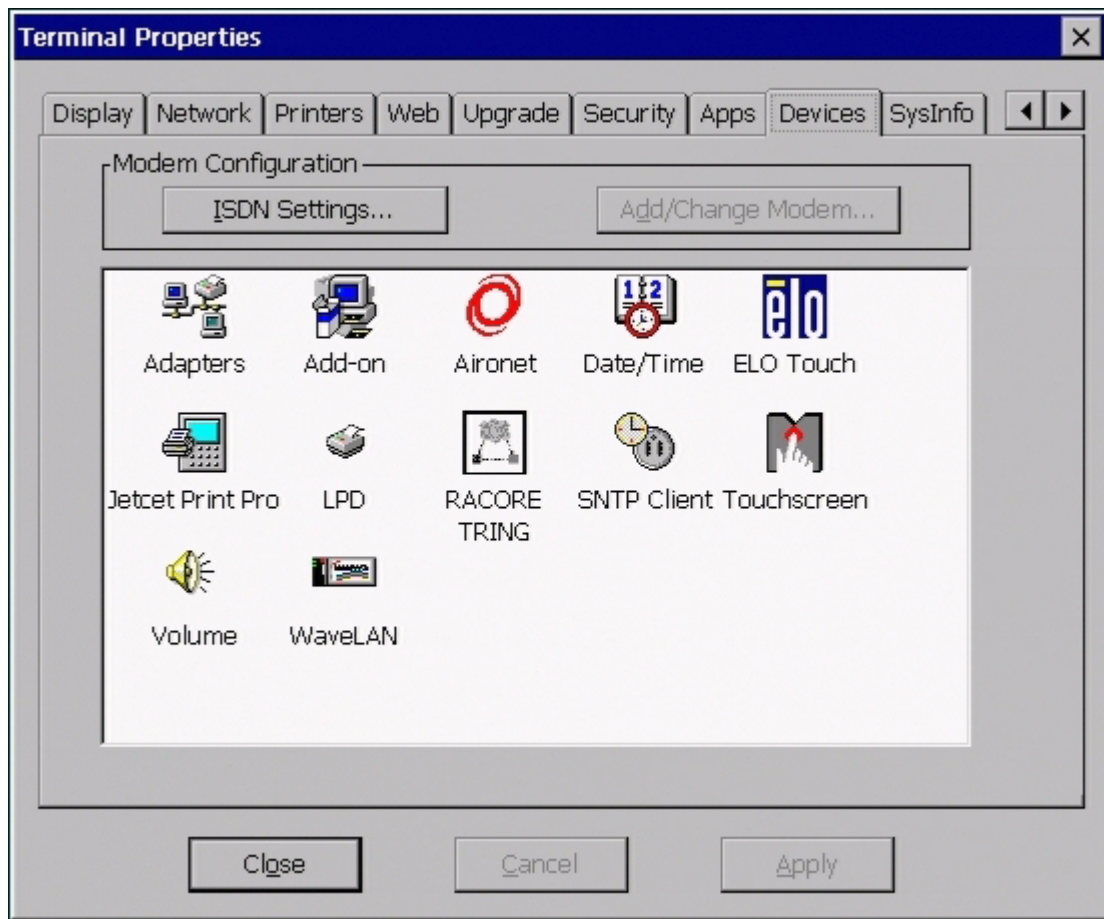


Table 21-1 Devices Properties Sheet

| Function | Description |
|-------------------------|--|
| ISDN Settings | Click on this command button to invoke the ISDN Settings dialog box. For more detailed information see "PC Card Adapters for Modems" in External Devices. By default this command button is activated. |
| Add/Change Modem | Click on this command button to invoke the Add or Change Modem dialog box. This command button will only be activated if a PC card modem is inserted in to the terminal's PC card slot. For detailed information see "PC Card Adapters for Modems" in External Devices. |
| Adapters | Click on this icon to invoke the Adapters Configuration dialog box. For detailed information see "Managing Network Adapters" in External Devices. |
| Add-on | Click on this icon to invoke the Add-on dialog box. For detailed information see "Add-on" in External Devices. |
| Aironet | Click on this icon to invoke the Aironet Wireless Lan Adapter Setup dialog box. For detailed information see "Aironet Wireless Land Adapter" in External Devices. |
| Date/Time | Click on this icon to invoke the Date/Time Properties dialog box. For detailed information see "Date/Time" in External Devices. |
| ELO Touch | Click on this icon to invoke the ELO Touchscreen dialog box. For detailed information see "Touchscreens" in External Devices. |
| JETCET PRINT Pro | Click on this icon to invoke the JETCET PRINT Professional dialog box. For detailed information see "JETCET PRINT" in External Devices. |
| LPD | Click on this icon to invoke the LPD Config dialog box. For detailed information see "Local Printers" in External Devices. |

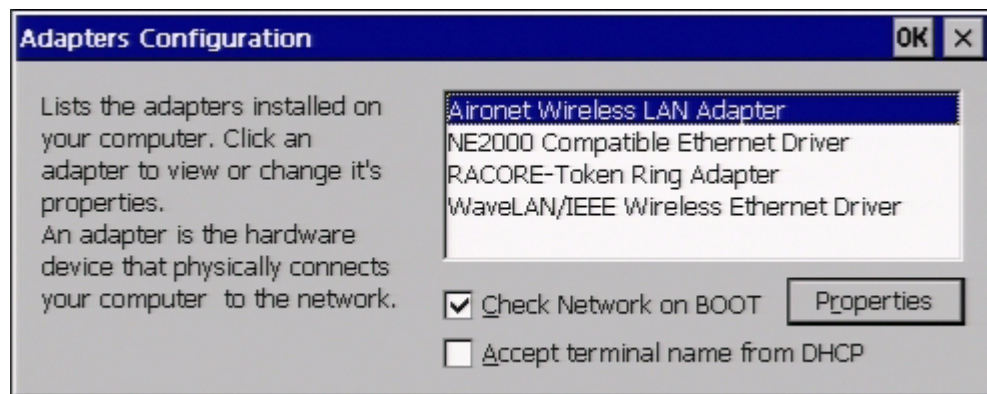
Table 21-1 Devices Properties Sheet, Continued

| Function | Description |
|--------------------|---|
| RACORE-TR | Click on this icon to invoke the RACORE - Token Ring Adapter Settings dialog box. For detailed information see “PC Card Adapters for Token Ring Networks” in External Devices. |
| SNTP Client | Click on this icon to invoke the SNTP Client dialog box. For detailed information see “SNTP Client” in External Devices. |
| Touchscreen | Click on this icon to invoke the MicroTouch Touchscreen Properties dialog box. For detailed information see “Touchscreens” in External Devices. |
| Volume | Click on this icon to invoke the Volume Properties sheet. For detailed information see “Volume Properties Sheet” in External Devices. |
| WaveLAN | Click on this icon to invoke the WaveLAN/IEEE Settings dialog box. For detailed information see “PC Card Adapters for Wireless Networks” in External Devices. |

22 Managing Network Adapters

An adapter is a device that physically connects a terminal to a network. The **Adapters Configuration** dialog box gives you the ability to configure the adapters on a terminal. Figure 22-1 shows the dialog box.

Figure 22-1 Adapters Configuration Dialog Box



Using the Adapters Configuration Dialog Box

To open this dialog box:

1. Press **F2** to invoke the **Terminal Properties** dialog box.
2. Click on the **Devices** tab.
3. Double click on the **Adapters** icon in the icon container on the **Devices** properties sheet.

The following table discusses the functions of the **Adapters Configuration** dialog box.

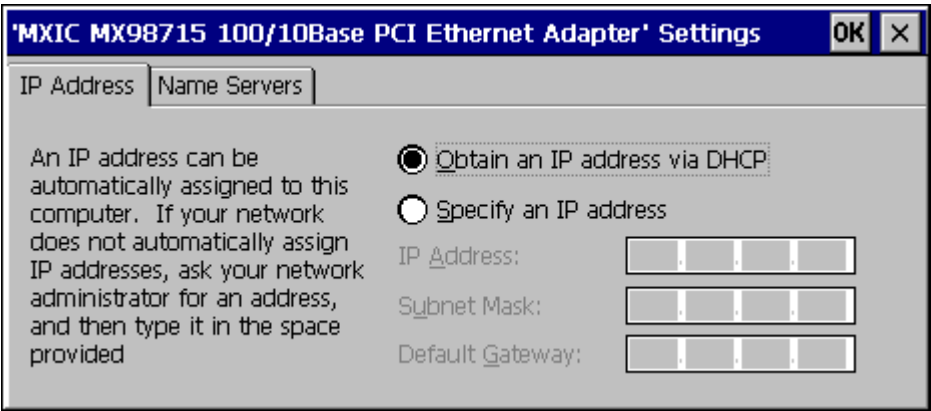
Table 22-1 Adapters Configuration Dialog Box

| Function | Description |
|---|--|
| Adapters | This is a list of all the available adapters on a terminal. |
| Check Network on BOOT check box | Check this box (default is checked) if you want the terminal to verify terminal connection to the network upon boot (a message is displayed if the test fails). If you are using an adapter that does not immediately connect to the network upon boot, you may desire to un-check the box so that the message does not appear each time the terminal boots. |
| Accept Terminal Name from DHCP check box | Some (but not all) DHCP servers can assign a terminal name through DHCP option 12. If your DHCP server has this capability, check this box if you want your terminal to use this assigned name (default is Not Checked). |
| Properties... | Click on this command button to invoke a properties dialog box. In the properties dialog box are the IP Address properties sheet and the Name Server properties sheet. The following sections discuss these properties sheets. |

IP Address Properties Sheet

Use the **IP Address** properties sheet to enter the IP address of the terminal that is using the adapter. Figure 22-2 shows the **IP Address** properties sheet.

Figure 22-2 IP Address Properties Sheet



The following table discusses the functions of the **IP Address Properties Sheet**.

Table 22-2 IP Address Properties Sheet

| Function | Description |
|-------------------------------|---|
| Obtain an IP Address via DHCP | Click on this radio button to let the terminal obtain an IP address automatically using DHCP. This button is selected by default. |
| Specify an IP Address | Click on this radio button to enter an IP address, subnet, and gateway. By default this function is disabled. |
| IP Address | Enter an IP address in this field. By default this text box is blank. |
| Subnet | Enter a subnet in this field. By default this text box is blank. |
| Default Gateway | Enter a gateway in this field. By default this text box is blank. |

Name Server Properties Sheet

Use the **Name Server** properties sheet to enter the IP addresses of the DNS and WINS servers for the terminal using the adapter. Figure 22-3 shows the **Name Server** properties sheet.

Figure 22-3 Name Servers Properties Sheet

'MXIC MX98715 100/10Base PCI Ethernet Adapter' Settings

IP Address

Name Servers

Name server addresses may be automatically assigned if DHCP is enabled on this adapter. You can specify additional WINS or DNS resolvers in the space provided

Primary DNS:

Secondary DNS:

Primary WINS:

Secondary WINS:

The following table discusses this properties sheet.

Table 22-3 Name Server Properties Sheet

| Function | Description |
|----------------|--|
| Primary DNS | Enter the IP address of your primary DNS (Domain Name Service) server. By default this text box is blank. |
| Secondary DNS | Enter the IP address of your secondary DNS server. By default this text box is blank. |
| Primary WINS | Enter the IP address of your primary WINS (Windows Internet Naming Service) server. By default this text box is blank. |
| Secondary WINS | Enter the IP address of your secondary WINS server. By default this text box is blank. |

23 Add-On

The **Add-on** dialog box contains two tab sections that let you remove firmware add-ons and to display information about available flash memory.

To open this dialog box:

1. Press **F2** to open the **Terminal Properties** dialog box.
2. Click on the **Devices** tab.
3. Click on the **Add-on** icon in the icon container on the **Devices** properties sheet.



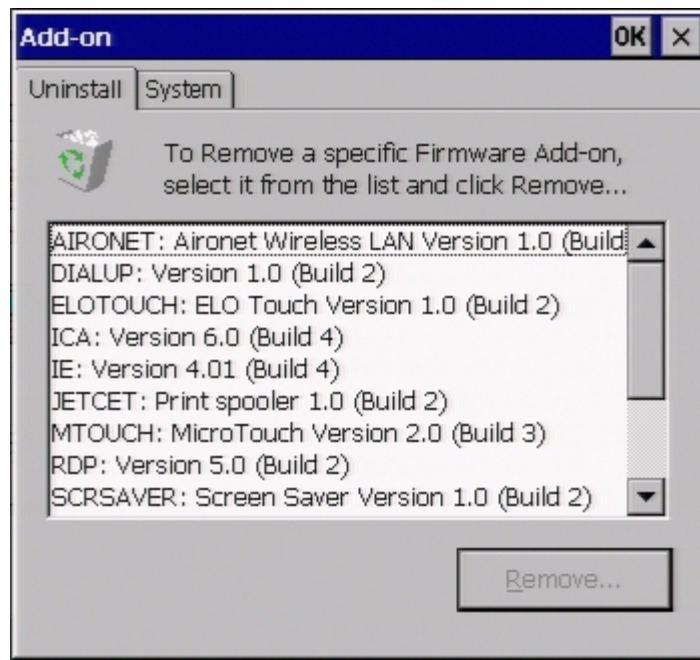
Note

To install an add-on, refer to the specific add-on documentation.

Add-on Dialog Box Uninstall Tab

Figure 23-1 shows the **Uninstall** tab section of the **Add-on** dialog box. To remove a specific firmware add-on, select it from the list and click **Remove....** Follow the prompts to complete the removal process.

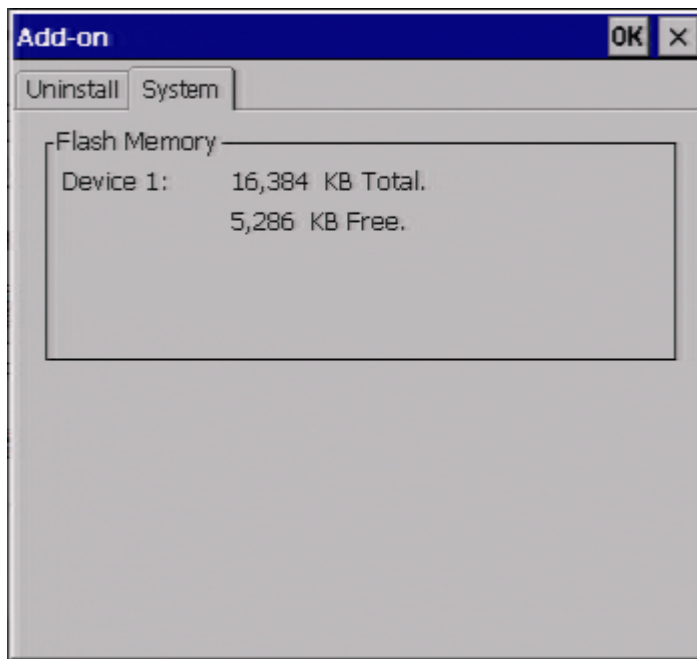
The terminal must be turned off and restarted for changes to take effect.

Figure 23-1 Uninstall Dialog Box

Add-on Dialog Box System Tab

Figure 23-2 shows the **System** tab section of the **Add-on** dialog box. It displays information about available flash memory and has no user controls.

Figure 23-2 System Dialog Box

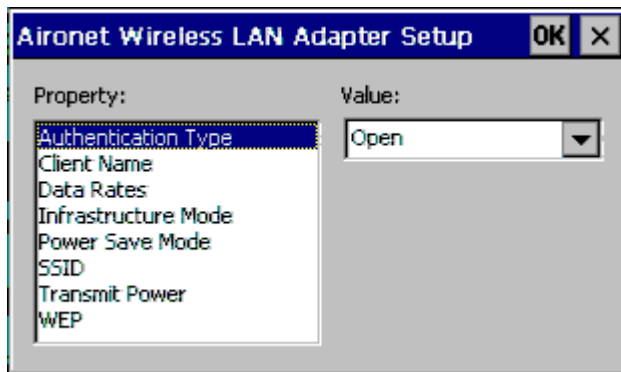


24 Aironet Wireless LAN Adapter Setup

The **Aironet** dialog box (Figure 24-1) allows you to configure the Aironet wireless LAN adapter solely by menu selections. To open this dialog box:

1. Press **F2** to open the **Terminal Properties** dialog box.
2. Click on the **Devices** tab.
3. Double-click on the **Aironet** icon in the icon container on the **Devices** properties sheet.

Figure 24-1 Aironet Wireless LAN Adapter Setup Dialog Box



Using the Aironet Dialog Box

To configure the wireless LAN adapter, select a property from the **Property** list and select the desired value from the **Value** drop-down menu. Repeat the process for each listed property.

25 PC Card Adapters for Modems

Your WBT supports PCMCIA adapted modems. This chapter discusses the setup for PCMCIA modems. Figure 25-1 shows the **Add or Change Modem** dialog box. Use this dialog box to set up a PCMCIA modem.

To open the dialog box, click on the **Add/Change Modem...** command button on the **Devices** properties sheet.

Figure 25-1 Add or Change Modem Dialog Box

Add or Change Modem

Modem Name:

Init Commands ("AT" Command Strings Separated by "<cr>" Delimiters):

Flow Settings ("AT" Command Strings Separated by "<cr>" Delimiters)

Flow Hardware:

Flow Software:

Flow Off:

Table 25-1 discusses the functions of this dialog box.

Table 25-1 Add or Change Modem Dialog Box

| Function | Description |
|----------------------|--|
| Modem Name | This field displays the brand name of the modem in your system. |
| Init Commands | Enter a modem initialization command string in this field. The default is ATE0V1&C1&D1<cr> . |
| Flow Settings | Use this group box to set the following flow settings: Flow Hardware Enter a flow hardware command string in this field. The default is AT&K3<cr> . Flow Software Enter a flow software command string in this field. The default is AT&K4<cr> . Flow Off Enter a flow hardware command string in this field. The default is AT&K0<cr> . |

**Note**

The Hayes command set is discussed in greater detail in “Modem AT Commands.”

ISDN Settings

Use the **ISDN Settings** dialog box to set the terminal's ISDN (Integrated Services Digital Network) settings. If you do not know this information, ask your system administrator. Figure 25-2 shows the dialog box. To invoke the dialog box, click on the **ISDN Settings...** command button on the **Devices** properties sheet.


 **Note**
These settings are specific to EiCon-Tech modems only.

Figure 25-2 ISDN Settings Dialog Box

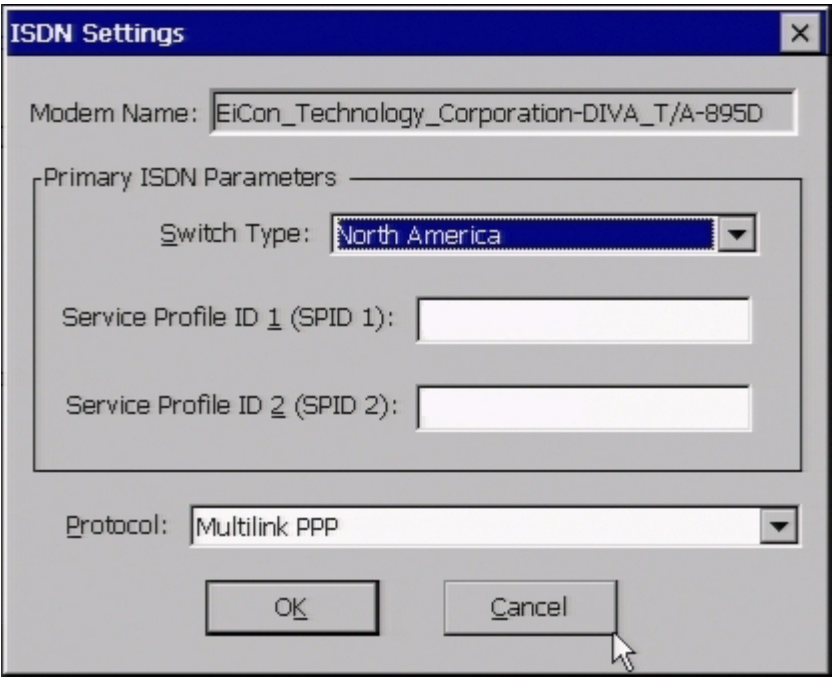




Table 25-2 discusses the functions of the **ISDN Settings** dialog box.

Table 25-2 ISDN Settings Dialog Box

| Function | Description |
|--------------------------------|--|
| Modem Name | This field displays the brand name of the modem in your system. |
| Primary ISDN Parameters | <p>Use this group box to configure the following ISDN parameters:</p> <p>Switch Type Use this drop-down scroll list to select the switch type. The default is North America.</p> <p>Service Profile ID 1 Use this field to enter Service Profile ID 1. Only numbers are allowed in this text box.</p> <p> Note Enter the SPID provided by your ISDN line provider (telephone company).</p> <p>Service Profile ID 2 Use this field to enter Service Profile ID 2. Only numbers are allowed in this text box.</p> <p> Note Enter the SPID provided by your ISDN line provider (telephone company).</p> |
| Protocol | Use this drop-down scroll list to select a protocol. The default is Multilink PPP . |

26 Touchscreens

Your WBT supports touchscreens. This chapter discusses the setup for the two touchscreens the terminal supports, ELO and MicroTouch.

ELO Touchscreen

Figure 26-1 shows the **ELO Touchscreen** dialog box. Use this dialog box to calibrate an ELO touchscreen.

To open this dialog box:

1. Press **F2** to open the **Terminal Properties** dialog box.
2. Click on the **Devices** tab.
3. Double-click on the **ELO Touch** icon in the properties sheet's icon container.

Figure 26-1 ELO Touchscreen Dialog Box

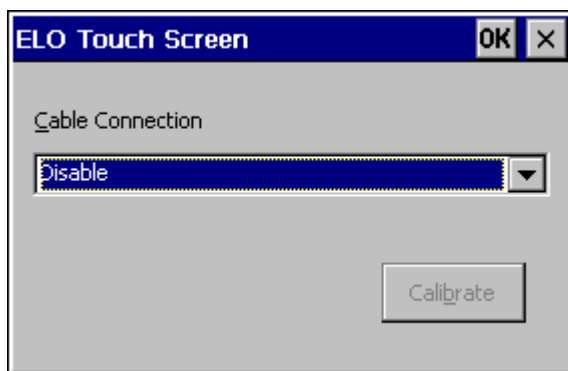



Table 26-1 discusses the dialog box.

Table 26-1 ELO Touchscreen Dialog Box

| Function | Description |
|-------------------------|---|
| Cable Connection | <p>Select from this scroll list the Com port to which the touchscreen is connected:</p> <ul style="list-style-type: none"> • Disable • Serial Cable on COM1 • Serial Cable on COM2 <p>The default for the list is Disable.</p> |
| Calibrate | <p>Click on this command button to calibrate the touchscreen. The button will be deactivated if a touchscreen is not connected to one of the terminal's Com ports or USB connectors.</p> <p> Note After a Com port is selected, the terminal must be restarted.</p> <p>When you click on Calibrate, a white screen with a single cross-hair in the upper left-hand corner displays:</p> <ol style="list-style-type: none"> 1. Touch the cross-hair. The cross-hair will move to the lower right-hand corner. 2. Touch the cross-hair. The cross-hair will move to the upper right-hand corner. 3. Touch the cross-hair. The ELO Touchscreen dialog box displays. 4. Click on OK. <p>Calibration is complete.</p> |

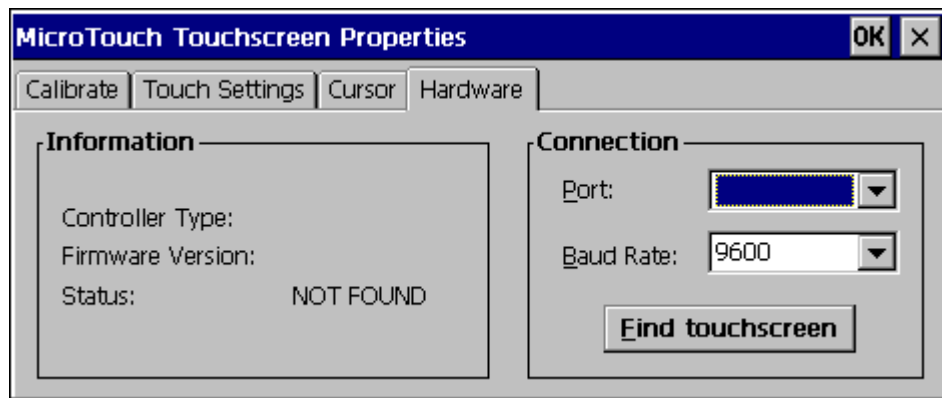
MicroTouch Touchscreen

Figure 26-2 shows the **Microtouch Touchscreen Properties** dialog box. Use this dialog box to set up a Microtouch touch screen.

To invoke this dialog box:

1. Press **F2** to invoke the **Terminal Properties** dialog box.
2. Click on the **Devices** tab.
3. Double-click on the **Touchscreen** icon in the properties sheet's icon container.

Figure 26-2 Microtouch Touchscreen Properties Dialog Box



The **Microtouch Touchscreen Properties** dialog box contains four properties sheets. The rest of this section discusses these properties sheets.

Hardware Properties Sheet

The **Hardware** properties sheet is displayed by default and is shown in Figure 26-2. The following table discusses the properties sheet.

Table 26-2 Hardware Properties Sheet

| Function | Description |
|--------------------|--|
| Information | <p>This group box displays information about the touchscreen that is connected to your terminal. To display the information, click on Find Touchscreen (see below).</p> <p>Controller Type This field shows the controller type.</p> <p>Firmware Version This field shows the firmware version.</p> <p>Status This field shows the status:</p> <ul style="list-style-type: none"> • OK • Not Found <p>If there is no MicroTouch touch screen connected to the terminal, the Status field will display Not Found.</p> |
| Connection | <p>Use this group box to configure the connection between the terminal and the touchscreen.</p> <p>Port Select the Com port that the touchscreen is connected to.</p> <p>Baud Rate Select the proper baud rate for the connection.</p> <p>Find Touchscreen Click on this command button to detect the touchscreen.</p> |

Cursor Properties Sheet

The **Cursor** properties sheet is shown in Figure 26-3.

Figure 26-3 Cursor Properties Sheet

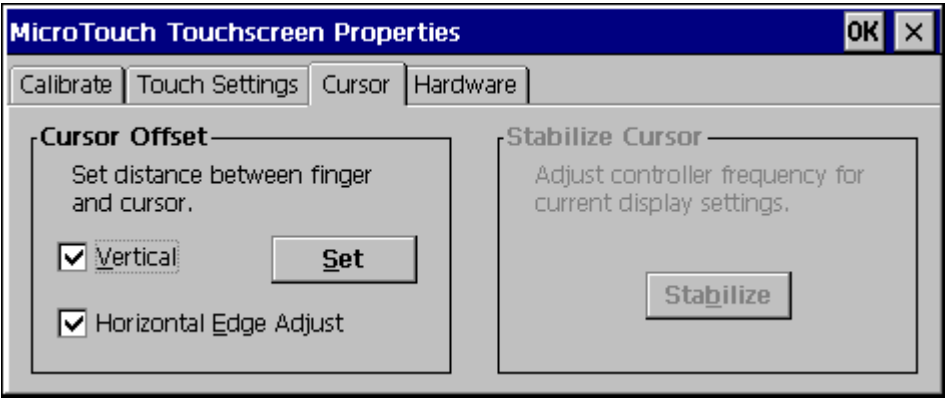
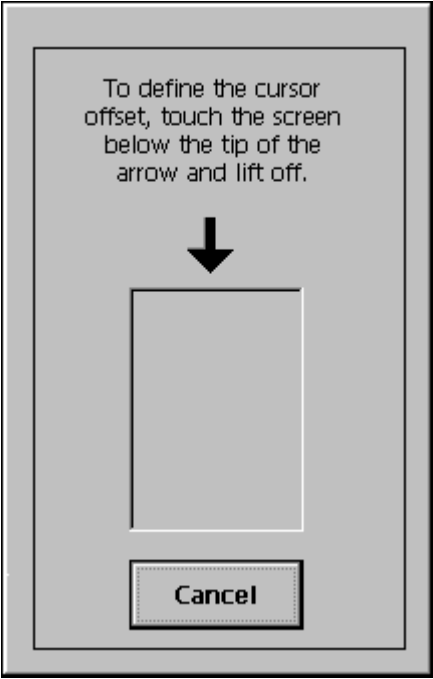


Table 26-3 discusses the **Cursor** properties sheet.

Table 26-3 Cursor Properties Sheet

| Function | Description |
|----------------------|---|
| Cursor Offset | Use this properties sheet to set the distance between your finger and the cursor. Vertical Check this check box to set the vertical distance. Horizontal Edge Adjust Check this check box to set the horizontal distance. |

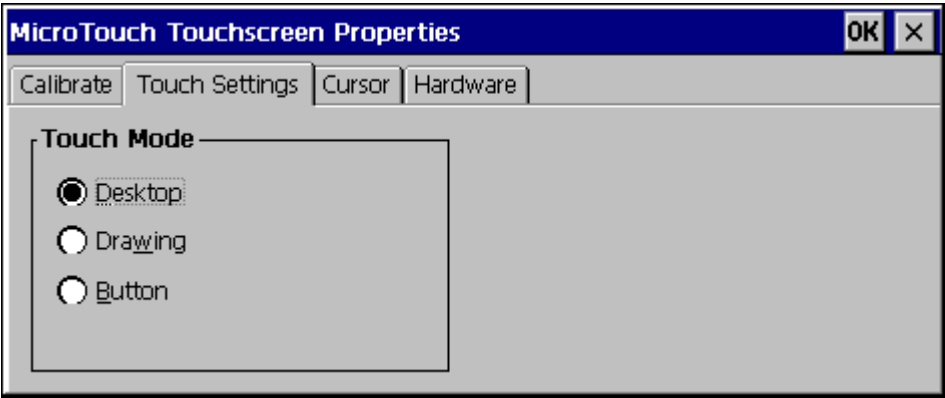
Table 26-3 Cursor Properties Sheet, Continued

| Function | Description |
|-------------------------|--|
| | <p>Set Click on this command button to invoke a dialog box that will allow you to set distances:</p> <div data-bbox="914 602 1344 1276"></div> |
| Stabilize Cursor | <p>This command button is always deactivated.</p> |

Touch Settings Properties Sheet

Figure 26-4 shows the **Touch Settings** properties sheet.

Figure 26-4 Touch Settings Properties Sheet



The following table discusses this properties sheet.

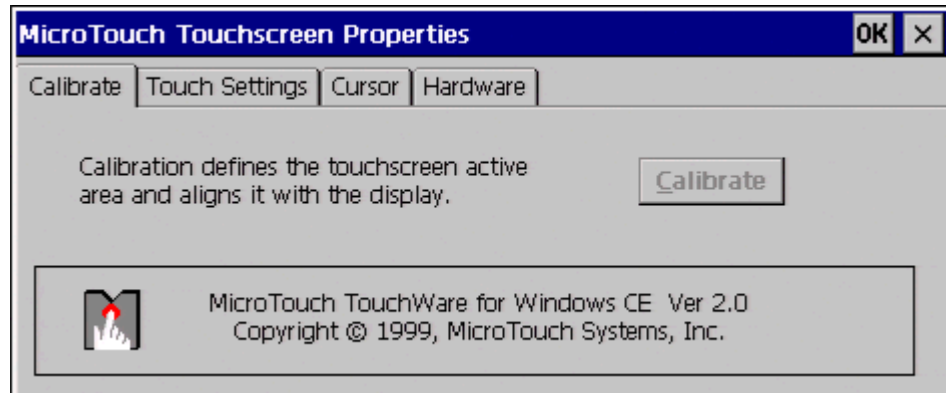
Table 26-4 Touch Settings Properties Sheet

| Function | Description |
|------------|---|
| Touch Mode | <p>Use this group box to configure a touch mode. A touch mode specifies actions that equate to mouse click, double-click, and drag events.</p> <p>Desktop Check this check box to enable desktop mode. Desktop mode is used for general desktop applications.</p> <p>Drawing Check this check box to enable drawing mode. Drawing mode is used for graphics applications.</p> <p>Button Check this check box to enable button mode. Button mode is used for applications that use button-type UIs.</p> |

Calibrate Properties Sheet

The **Calibrate** properties sheet is shown in Figure 26-5.

Figure 26-5 Calibrate Properties Sheet



The **Calibrate** properties sheet has one command button. Click on the **Calibrate** command button to begin the calibration process. A white screen with a single cross-hair in the lower left-hand corner displays:

1. Touch the cross-hair. The cross-hair will move to the upper right-hand corner.
2. Touch the cross-hair. The **Calibration Complete** dialog box displays.
3. Follow the instructions in the **Calibration Complete** dialog box to complete the calibration process.

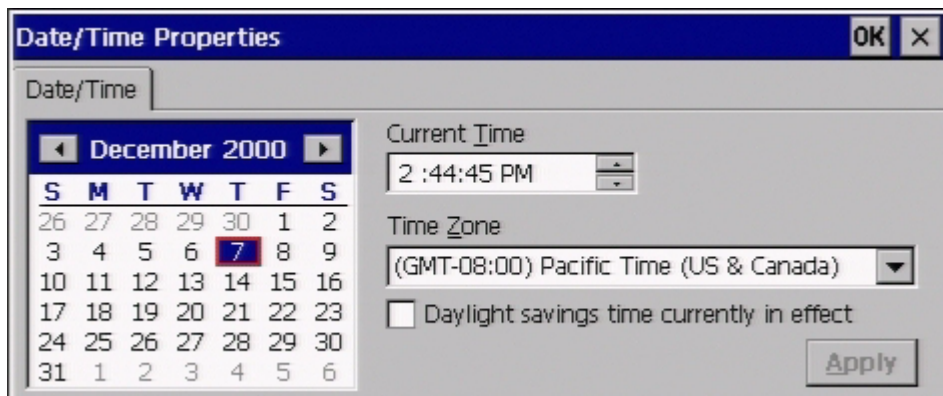
27 Date/Time Properties

The **Date/Time Properties** dialog box (Figure 27-1) allows you to set the date and time on the terminal.

To open this dialog box:

1. Press **F2** to open the **Terminal Properties** dialog box.
2. Click on the **Devices** tab.
3. Double-click on the **Date/Time-on** icon in the icon container on the **Devices** properties sheet.

Figure 27-1 Date/Time Properties Dialog Box



Use the calendar to set the date. Select the **Time Zone** and check the check box if daylight savings time is currently in effect.

**Note**

If a time server is available (See **SNTP Client** chapter), the terminal time will automatically synchronize to the time provided by the server. Otherwise, the time must be set manually.

To manually set the time, enter a time slightly ahead of the actual time in **Current Time** text box, and then just as the actual time reaches the set time, click on the **Apply** button.

28 JETCET PRINT

JETCET PRINT Professional is a utility that supports local printing from your Windows CE-based terminal.



Note

JETCET only supports IE 4.0. ICA, RDP, or terminal emulations do not use the JETCET printer driver.

The **JETCET PRINT Professional** dialog box (Figure 28-1) allows you to select printing properties. To open this dialog box:

1. Press **F2** to open the **Terminal Properties** dialog box.
2. Click on the **Devices** tab.
3. Click on the **JETCET PRINT Pro** icon in the **Devices** tab.

Table 28-1 describes the available printing options and settings.

Figure 28-1 JETCET PRINT Professional Dialog Box

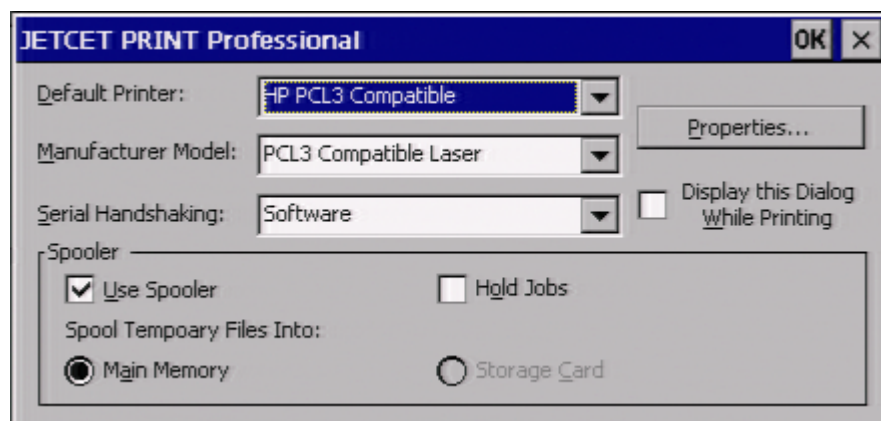


Table 28-1 JETCET PRINT Professional Dialog Box Settings


| Function | Description |
|--|---|
| Default Printer drop-down list box | Displays a list of supported printers. |
| Manufacturer Model drop-down list box | <p>Displays a list of manufacturers of the currently selected default printer. Available printers are:</p> <ul style="list-style-type: none"> • Cannon BJC • Citizen • Epson Compatible • HP PCL3 Compatible (default) • PocketJet • PocketJetII • PostScript <p> Note These are the only supported printers.</p> |
| Serial Handshaking drop-down list box | Allows selection of software or hardware handshaking between the terminal and the printer. Default is software. |
| Spooler area | Controls in this area are used to select print spooler options. Checking Use Spooler (default is checked) enables the Hold Jobs check box and the spooler memory selection radio buttons. Currently only main memory is available (Main Memory radio button permanently active). If you check Hold Jobs , the print jobs will be held in main memory until the box is un-checked. |

Table 28-1 JETCET PRINT Professional Dialog Box Settings, Continued

| Function | Description |
|---|---|
| Display this Dialog While Printing check box | Check if you want this dialog box to automatically open when printing. |
| Properties... command button | Opens the Printer Properties dialog box. This dialog box has four tab sections, each of which contains controls for setting a category of print properties: <ul style="list-style-type: none">• Color (Figure 28-2)• Dithering (Figure 28-3)• Toner Saver (Figure 28-4)• Layout (Figure 28-5) |

Figure 28-2 Printer Properties Dialog Box, Color Tab

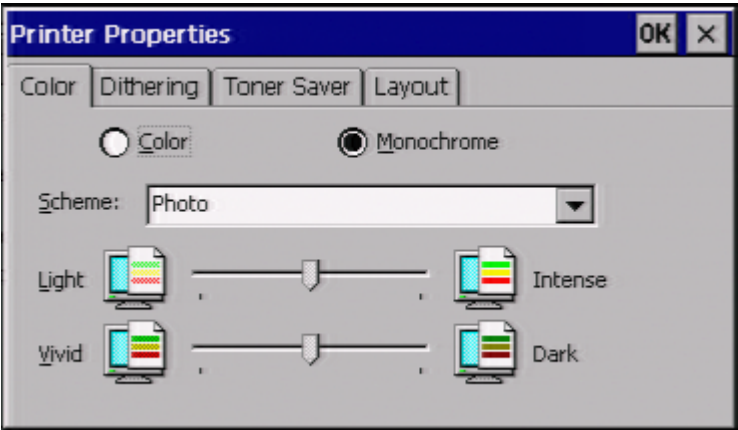


Figure 28-3 Printer Properties Dialog Box, Dithering Tab

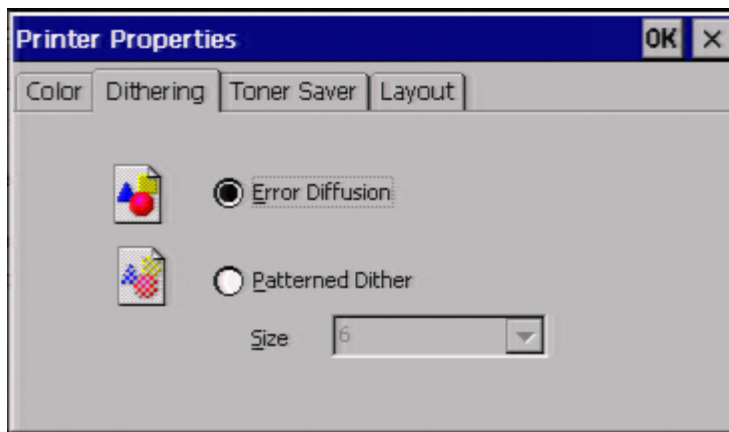


Figure 28-4 Printer Properties Dialog Box, Toner Saver Tab

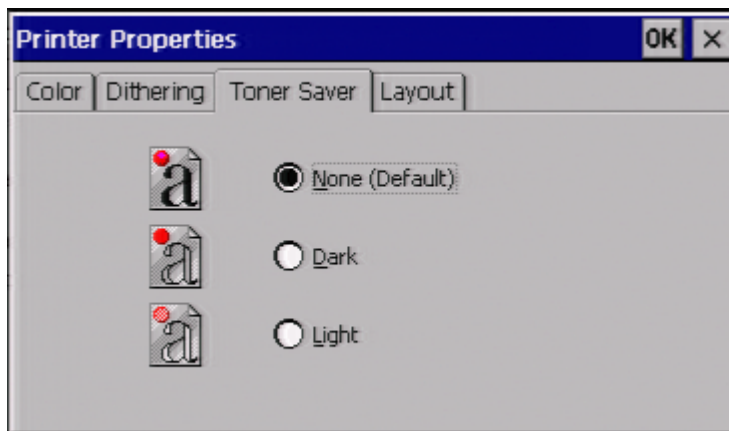
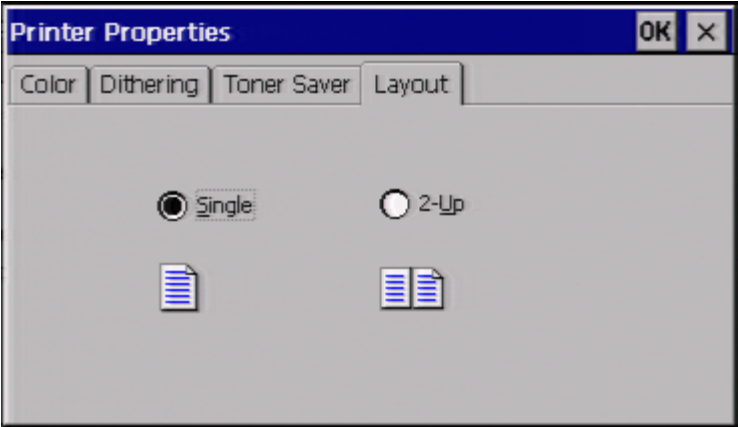


Figure 28-5 Printer Properties Dialog Box, Layout Tab



29 Local Printers

The terminal supports both Line Printer Daemon (LPD) printing and printing from applications.

LPD Printing

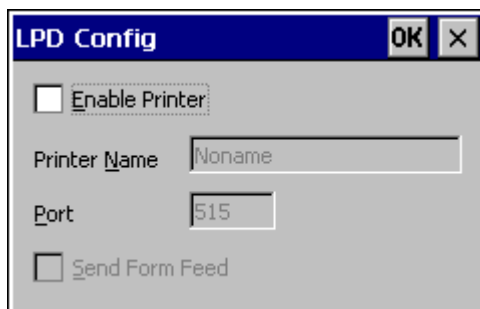
This paragraph discusses the configuration of local printing using the **LPD Config** dialog box.



Note

LPD can only be used with the parallel port of a terminal.

Figure 29-1 LPD Config Dialog Box



Using the LPD Config Dialog Box

To invoke this dialog box:

1. Press **F2** to invoke the **Terminal Properties** dialog box.
2. Click on the **Devices** tab.
3. Click on the **LPD** icon in the icon container.

Table 29-1 discusses the dialog box.

Table 29-1 LPD Config Dialog Box

| Function | Description |
|-----------------------|---|
| Enable Printer | Check this check box to enable LPD printing to a printer connected to your terminal. |
| Printer Name | Type in this field the name of the connected printer. The default for this field is None . |
| Port | Type in this field the virtual port number. Virtual port is a logical device assigned when you set up LPD services on your server. The default for this field is 515 . |
| Send Form Feed | Check this check box to enable form feeds. |

RDP Printing

You may print to a local printer from RDP (Remote Desktop Protocol) 5.0/Win2K applications. This paragraph describes how to select the driver for a connected printer.

Printers Properties Sheet

Figure 29-2 shows the **Printers** properties sheet. To invoke this properties sheet:

1. Press **F2** to invoke the **Terminal Properties** dialog box.
2. Click on the **Printers** tab.

Figure 29-2 Printers Properties Sheet

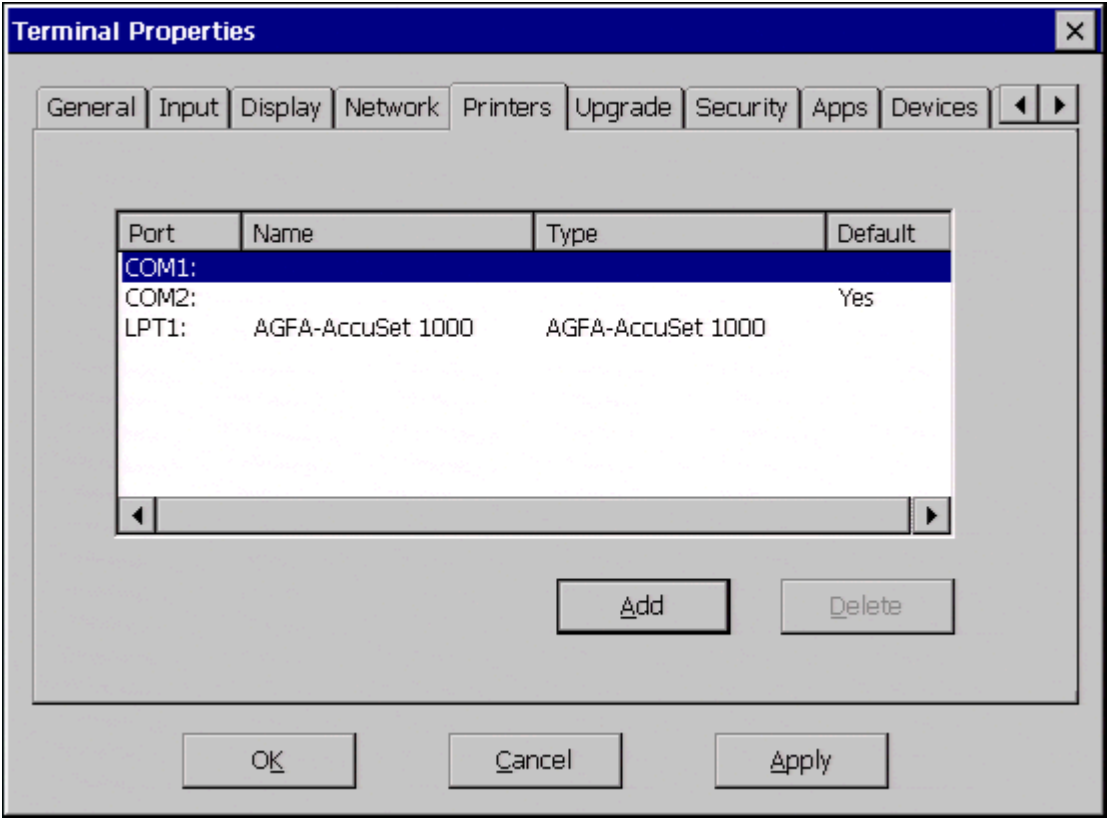


Table 29-2 discusses the properties sheet.

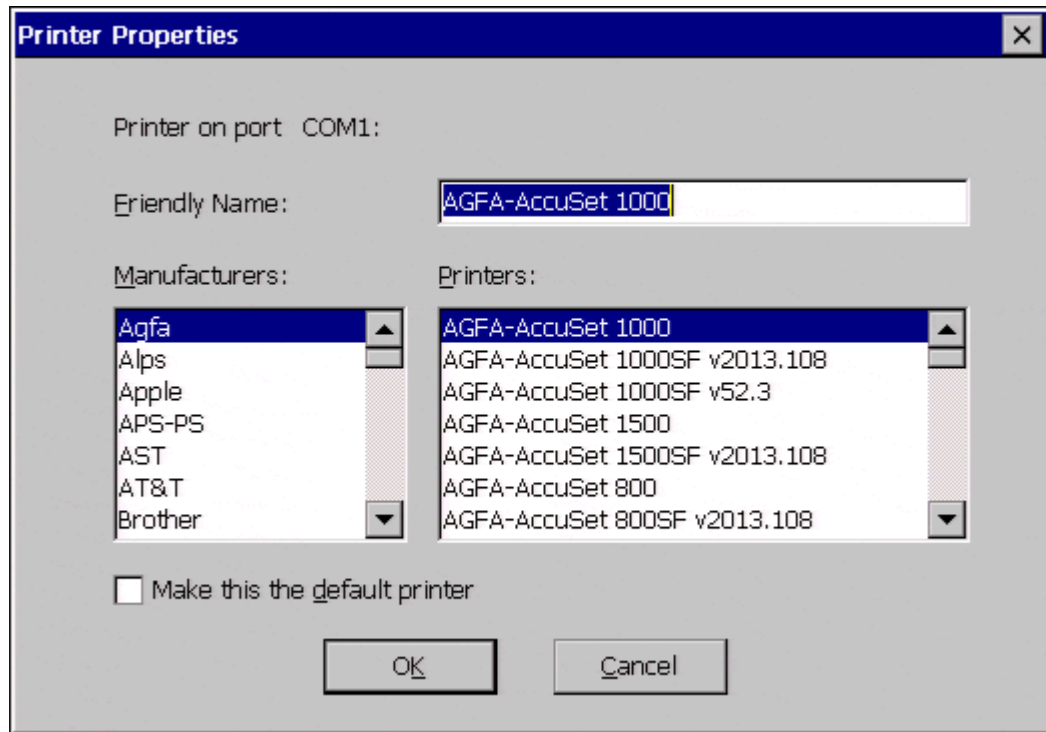
Table 29-2 Printers Properties Sheet

| Function | Description |
|--|--|
| List box | <p>Contains a listing of printers associated with each available port (Com1, Com2, LPT1). Lists the name, type, and whether it is the default printer.</p> <p>Select a port in this list and press the Add / Properties command button to open the Printer Properties dialog box (see Figure 29-3) which allows you to configure a printer for the port. Double-clicking the listing has the same effect as pressing the button.</p> |
| Add / Properties command button | <p>If the selected port does not have a printer associated with it, the command button label will be Add; otherwise the label will be Properties. Clicking on the button opens the Printer Properties dialog box, which enables the user to either select a printer for the port or change the printer properties for the selected port.</p> |
| Delete command button | <p>Deletes printer listing (if properties are defined) for the selected port.</p> |

Using the Printer Properties Dialog Box

Figure 29-3 shows the **Printer Properties** dialog box.

Figure 29-3 Printer Properties Dialog Box



Use the **Manufacturers** and **Printers** list boxes to select a printer. The **Printer Name** text box will initially contain the manufacturer's name for the printer. Overtyping this with the name by which you will refer to this printer. If you want this to be the default printer, check the Make this the default printer box (this will de-select another printer previously selected as default). Click **OK** to accept the properties and close the box or click **Cancel** to cancel the selection and close the box.

30 PC Card Adapters for Token Ring Networks



Note

This chapter applies only to the Model **T1010** terminal.

Your WBT supports PCMCIA RACORE token ring adapter cards. This chapter discusses the setup for RACORE token ring card. Figure 30-1 shows the **RACORE Token Ring Adapter Settings** dialog box. Use this dialog box to configure a RACORE token ring card.

Using the RACORE - Token Ring Adapter Settings Dialog Box

To invoke this dialog box:

1. Press **F2** to invoke the **Terminal Properties** dialog box.
2. Click on the **Devices** tab.
3. Click on the **RACORE - TR** icon in the icon container on the **Devices** properties sheet.

Figure 30-1 RACORE - Token Ring Adapter Settings Dialog Box

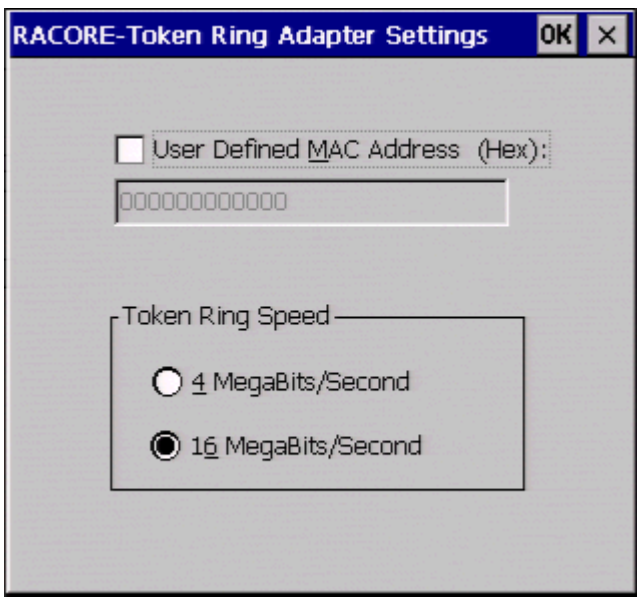


Table 30-1 discusses the dialog box.

Table 30-1 RACORE - Token Ring Adapter Settings

| Function | Description |
|--------------------------|---|
| User Defined MAC Address | Use this text field to enter the MAC address of the token ring PC card. The default is 000000000000 . |
| Token Ring Speed | Use this group box to select the speed of your token ring network. The default is 16 Megabits/Second 4 Megabits/Second Click on this radio button if your network is set to a passing speed of 4 megabits. 16 Megabits/Second Click on this radio button if your network is set to a passing speed of 16 megabits. |

31 SNTP Client

Your terminal is capable of synchronizing its clock to time provided by an SNTP (Simple Network Time Protocol) server. Figure 31-1 shows the **SNTP Client** dialog box. Use this dialog box to select the SNTP server and to synchronize the terminal time.



Note

SNTP client is available only when IE4 is installed.

Using the SNTP Client Dialog Box

To invoke this dialog box:

1. Press **F2** to invoke the **Terminal Properties** dialog box.
2. Click on the **Devices** tab.
3. Click on the **SNTP Client** icon in the icon container on the **Devices** properties sheet.

Figure 31-1 SNTP Client Dialog Box

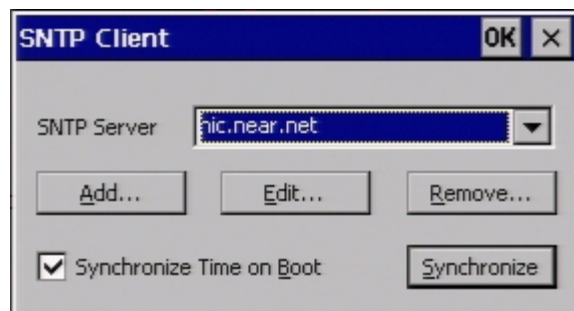



Table 31-1 discusses the dialog box.

Table 31-1 **SNTP Client Settings**

| Function | Description |
|---|---|
| SNTP Server drop-down list box | Permits selection of an SNTP server from a list built using the Add , Edit , and Remove command buttons. |
| Add , Edit , and Remove command buttons | Add and Edit open the Edit SNTP Server dialog box, from which you may add to the SNTP server list or edit a current selection. The IP address or DNS name of the server may be used. Remove deletes the selected entry from the list. |
|  | |
| Synchronize Time on Boot check box | Check this box if you want the terminal to automatically synchronize to the SNTP time server when the terminal boots. Default is checked . |
| Synchronize command button | Causes the terminal time to immediately synchronize to the selected SNTP server. A message appears if synchronization fails. This feature can be used to test availability of listed SNTP servers. |

32 PC Card Adapters for Wireless Networks

Your WBT supports PCMCIA adapters for WaveLAN wireless networks. This chapter discusses the setup for these adapters. Figure 32-1 shows the **WaveLAN/IEEE Settings** dialog box.

Using the WaveLAN/IEEE Settings Dialog Box

To invoke this dialog box:

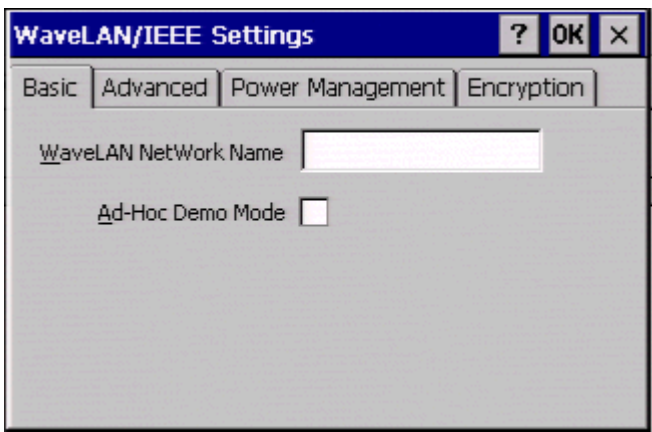
1. Press **F2** to invoke the **Terminal Properties** dialog box.
2. Click on the **Devices** tab.
3. Double-click on the **WaveLAN** icon in the icon container.

The **WaveLAN/IEEE Settings** dialog box contains four properties sheets. The rest of this section discusses these properties sheets.

Basic Properties Sheet

The **Basic** properties sheet is the default of the dialog box and is shown in Figure 32-1.

Figure 32-1 WaveLAN/IEEE Settings Dialog Box




The following table discusses the properties sheet.

Table 32-1 Basic Properties Sheet

| Function | Description |
|----------------------|---|
| WaveLAN Network Name | Enter in this field the name of the LAN network that you want to connect to. This field must match the name of the current wireless network infrastructure. The default for this field is blank. |
| Ad-Hoc Demo Mode | Click here to enable Ad-hoc Demo Mode . Enabling this mode will allow the terminal to connect to a small wireless workgroup. In this mode the terminal will: <ul style="list-style-type: none">• Ignore WaveLAN Network Name.• Ignore WavePOINT-II access points.• Fix the radio to operate at factory default. By default the check box is unchecked. |

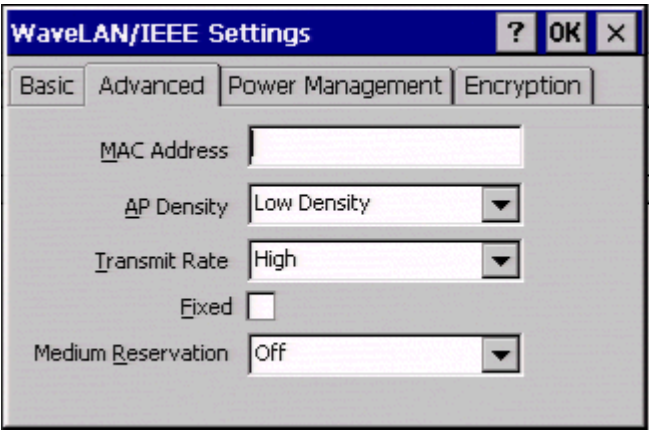
Advanced Properties

The **Advanced** properties sheet is shown in Figure 32-2.

**Note**

Advanced properties normally should not need to be changed. The default values should be sufficient for normal network use.

Figure 32-2 Advanced Properties Sheet



The following table discusses this properties sheet.

Table 32-2 Advanced Properties Sheet

| Function | Description |
|-------------|---|
| MAC Address | Enter in this field a user assigned MAC address. You will not have to change this parameter for most networks. You will only have to assign an address if your network uses local MAC addressing. By default this field is blank. |

Table 32-2 Advanced Properties Sheet, Continued

| Function | Description |
|---------------------------|---|
| AP Density | <p>Select in this scroll box an AP density (access point density) value. This parameter controls the roaming sensitivity of the terminal. The values are:</p> <ul style="list-style-type: none"> • Low Density • Medium Density • High Density <p>This parameter is set by:</p> <ul style="list-style-type: none"> • The density of access points in the network. • The configuration of the access points. <p>The default is Low Density.</p> |
| Transmit Rate | <p>Select in this scroll box the transmission rate of the connection. The values are:</p> <ul style="list-style-type: none"> • Low • Standard • Medium • High <p>The default is High.</p> |
| Fixed | <p>Click to check this box to disable the Auto-Transmit Rate Select function. The default is unchecked.</p> |
| Medium Reservation | <p>Select from this scroll list:</p> <ul style="list-style-type: none"> • Off • Hidden Stations <p>This function improves wireless performance in a network. It prevents message collision. The default is Off.</p> |

Power Management

Figure 32-3 shows the **Power Management** properties sheet.

Figure 32-3 Power Management Properties Sheet

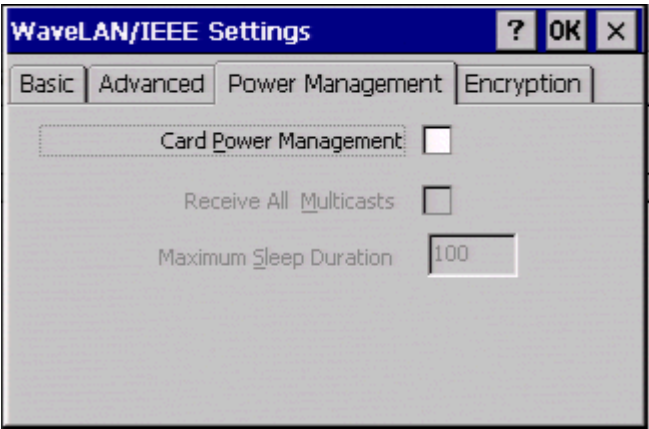


Table 32-3 discusses the properties sheet.

Table 32-3 Power Management Properties Sheet

| Function | Description |
|------------------------|--|
| Card Power Management | Click to check this box to enable power management. Power management conserves the life of the battery of a portable device. When Card Power Management is enabled, the other functions of the properties sheet are activated. By default the box is unchecked. |
| Receive All Multicasts | Click to check this box to enable the terminal to wake up and receive multicasts. The default for this box is deactivated. |
| Maximum Sleep Duration | Enter in this field the maximum time the terminal is allowed to sleep. The default is 100 . |

Encryption

Figure 32-4 shows the **Encryption** properties sheet.

Figure 32-4 Encryption Properties Sheet

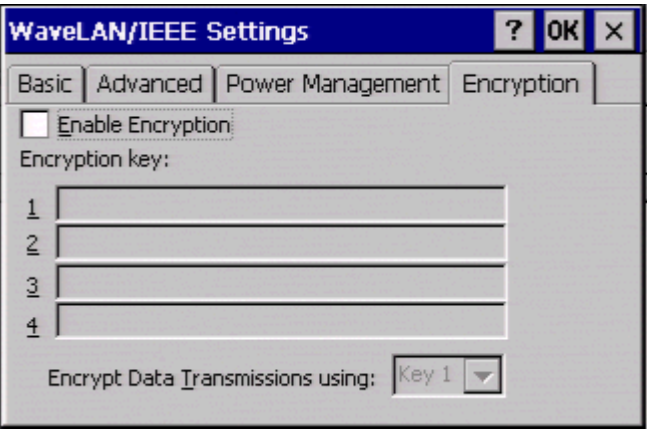


Table 32-4 discusses the properties sheet.

Table 32-4 Encryption Properties Sheet

| Function | Description |
|---|---|
| Enable Encryption check box | Check this box to enable encryption. |
| Encryption Key text boxes | Store encryption keys that you may use. |
| Encryption Data Transmission using list box | Select the key you are currently using. |

33 Volume Properties

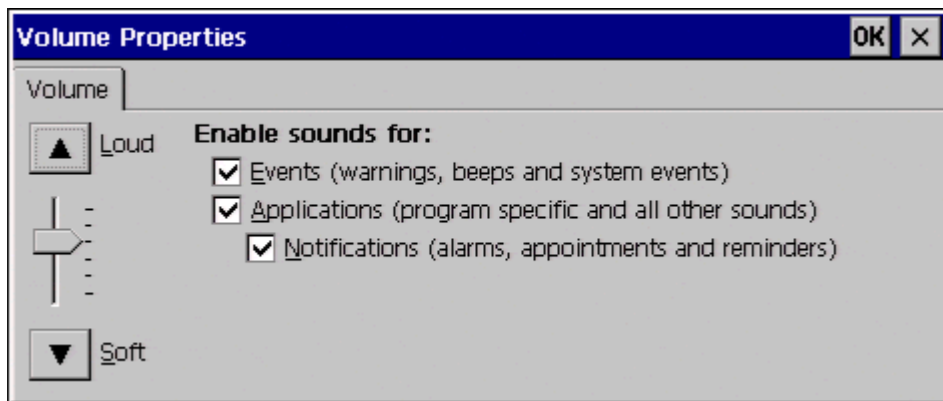
Your WBT supports audio for the ICA client. This chapter discusses the audio controls (see below).



Note

This volume control will function only before Windows Media Player is launched.

Figure 33-1 Volume Properties Dialog Box



Using the Volume Properties Dialog Box

To invoke this dialog box:

1. Press **F2** to invoke the **Terminal Properties** dialog box.
2. Click on the **Devices** tab.
3. Click on the **Volume** icon in the icon container.

Table 33-1 lists the controls in the dialog box.

Table 33-1 Volume Properties Dialog Box

| Function | Description |
|--|--|
| Volume slider control | Adjusts the audio volume. |
| Enable sounds for check boxes (3) | Check these boxes as appropriate to enable sounds for: <ul style="list-style-type: none">• Events - warnings, beeps and system events.• Applications - program specific and all other sounds. If this box is unchecked, Notifications is disabled (grayed).• Notifications - alarms, appointments and reminders. Available only if Applications is checked. |

Firmware Upgrades

- 39 Cable Firmware Upgrades**
- 40 FTP Pull Firmware Upgrades**
- 41 SNMP Firmware Upgrades**
- 42 DHCP Firmware Upgrades**

34 Cable Firmware Upgrades

The following section describes the cable method of firmware download. The cable method for all terminals is parallel download, using a Laplink[®] cable and the MS-DOS xfer.exe program.



Caution

Do not power the terminal off during the upgrade.



Note

1. Installation of add-ons can not be performed through this method.
2. This method does not support upgrades for multip[le flash device units (See **Terminal Properties** | **SysInfo** tab for flash configuration).

Setup

The following equipment may be needed:

- IBM-compatible PC with a CD-ROM drive and a parallel port.
- Terminal firmware upgrade diskette or CD, or downloaded firmware binary
- LapLink or equivalent parallel port communications cable (used only if parallel port is used for downloading).



Note

For convenience, drive D:\ is used here for the CD drive. You should substitute the appropriate drive letter for your PC.

Parallel Flash Download Procedure

This procedure includes manual download instructions. The download procedure will not work unless your PC is booted to DOS.

1. Record the terminal's current configuration.



Caution

All previous settings will be lost. Upgrading the firmware defaults the current configuration to the factory default settings.

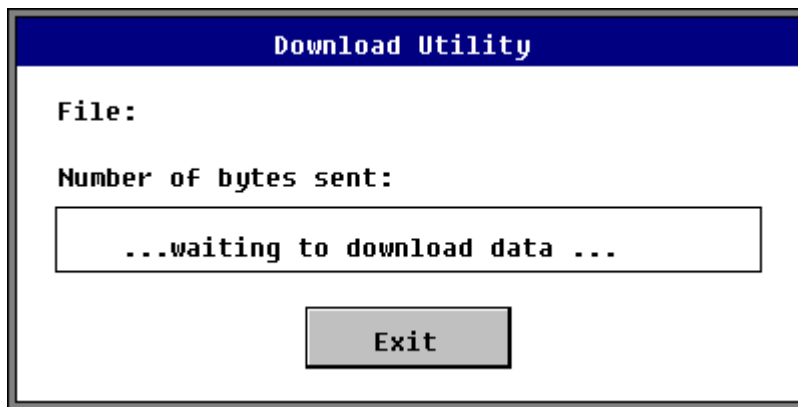
2. Turn off the terminal.
3. Connect a parallel LapLink cable from the parallel port of your PC to the parallel port of the terminal.
4. Insert the firmware upgrade CD into your PC.
5. Type **D:** at the DOS prompt to select the drive where the download files exist. Use the **dir** command to find the files.
6. Perform the following Manual Download procedure."

Manual Download

Use the following instructions to perform a manual download.

1. Type **xfer <filename.ext>** at the DOS prompt
2. Press **Enter**, and the **Download Utility** dialog box appears. See the following figure.

Figure 34-1 Download Utility Dialog Box



3. Power-up the terminal to initiate the download.

The **Firmware Upgrade** dialog box appears, showing that the download is in progress. When the download is complete, disconnect the parallel cable. The **Setup Wizard** will appear.



Note

If the download dialog box remains on the screen longer than 1 minute, press the **Enter** key. A prompt to repeat or quit the operation appears. If the download fails, quit the procedure, check all cables and connections, then repeat from Step 2.

Cable Pinouts

Parallel Download Cable Pinouts

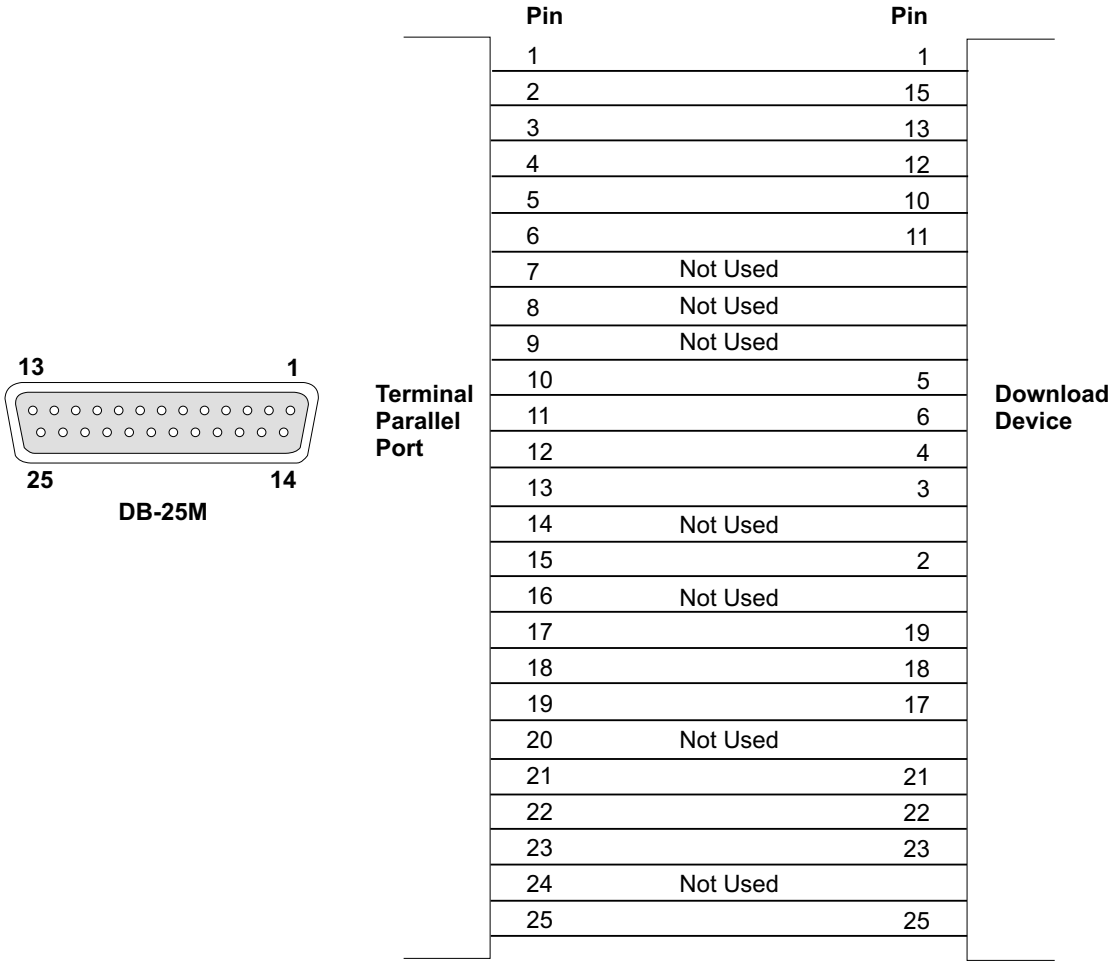
The following table lists the parallel download cable pinouts.

Table 34-1 Parallel Download Cable Pinouts

| PC Side | Terminal Side |
|--------------------------|---------------|
| Pin 01 | Pin 01 |
| Pin 02 | Pin 15 |
| Pin 03 | Pin 13 |
| Pin 04 | Pin 12 |
| Pin 05 | Pin 10 |
| Pin 06 | Pin 11 |
| Pin 07 | * |
| Pin 08 | * |
| Pin 09 | * |
| Pin 10 | Pin 05 |
| Pin 11 | Pin 06 |
| Pin 12 | Pin 04 |
| Pin 13 | Pin 03 |
| Pin 14 | Pin 14 |
| Pin 15 | Pin 02 |
| Pin 16 | Pin 16 |
| Pin 17 | Pin 17 |
| Pins 18 to 25 | Pin 25 Gnd |
| * - Pin(s) not connected | |

The following figure shows the connections for the parallel download cable.

Figure 34-2 Parallel Download Cable Connectors



35 FTP Pull Firmware Upgrades

Use the **Upgrade** properties sheet to:

1. Set up a terminal for communication with an FTP server.
2. Perform FTP pull upgrades.

See Figure 35-1.

Using the Upgrade Properties Sheet

To invoke this properties sheet:

1. Press the **F2** key.
2. Click on the **Upgrade** tab in the **Terminal Properties** dialog box.

Figure 35-1 Upgrade Properties Sheet

Terminal Properties

GeneralInputDisplayNetworkUpgradeSecurityAppsDevicesSysInfoAbout

Local Firmware Upgrade: —

Use ETP Information From DHCP Server

Use Local FTP Information

Server Name:

Server Directory:

User ID:

anonymous

Password:

Status:

Save Password

Upgrade

OK

Cancel

Apply

The following table describes the functions found on this properties sheet.

Table 35-1 Upgrade Properties Sheet

| Function | Description |
|-------------------------------|---|
| Local Firmware Upgrade | <p>Use this group box to upgrade your terminal's firmware using an FTP server. The functions are:</p> <p>Use FTP Information from DHCP Server Select this function if you want to get the FTP server and directory information from a DHCP server. Click on this radio button to select the function. By default the function is disabled.</p> <p>Use Local FTP Information Select this function if you want to enter the FTP server you will use for the upgrade. Click on the radio button to select the function. By default the function is enabled.</p> <p>Server Name Enter the name or IP address of the FTP server where the binary and params.ini reside. The default is blank.</p> <p>Server Directory Enter the directory on the FTP server where the binary and params.ini reside. The default is blank.</p> <p>User ID Enter your user account in this field. The default is anonymous.</p> <p>Password Enter your password in this field. The default is *****.</p> <p>Status This display box shows status information about the connection to the FTP server, and the firmware download. Connect and download errors are also reported. The default is blank.</p> |

Table 35-1 Upgrade Properties Sheet, Continued

| Function | Description |
|----------------|--|
| | Save Password Check this box to save the entered password in the registry. |
| Upgrade | Click on this command button to initiate the upgrade procedure. By default the button is disabled an FTP server selection is made in the Local Firmware Upgrade area of the dialog box. |

FTP and Params.ini



Note

Params.ini must be installed on your FTP server to upgrade your terminal. The upgrade firmware can be obtained through the manufacturer's customer support.

Download is initiated through the **Upgrade** command button on the **Upgrade** properties sheet. Information in the **Upgrade** properties sheet must be filled out to ensure a proper download. See "Changing Terminal Properties" in Advanced User Interface for more details about this properties sheet.

The Upgrade Process

To upgrade:

1. Place params.ini and the new firmware file on your FTP server.
2. Press **F2** to invoke the **Terminal Properties** dialog box.
3. Click on the **Upgrade** properties sheet tab and enter the appropriate information.
4. Click on the **Upgrade** command button.

The bootstrap program uses **Server Name**, **User ID**, **Password**, and **Server Directory** from the **Upgrade** properties sheet to access the FTP server. The program performs the upgrade, checks for errors, and reboots the terminal.

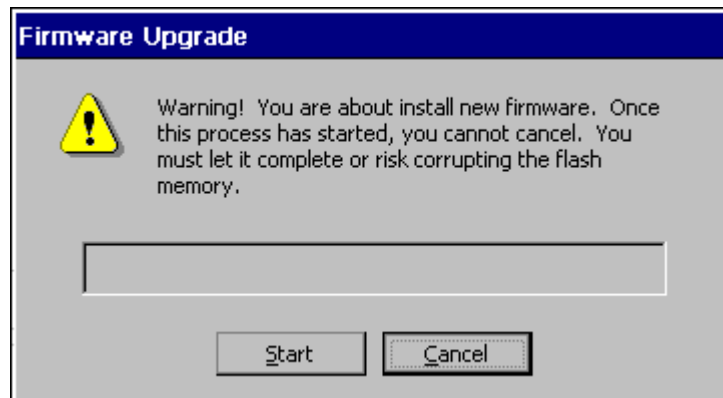


Note

An upgrade can not be cancelled once it has started.

A series of dialog boxes displays during the upgrade.

Figure 35-2 Firmware Upgrade Dialog Box 1



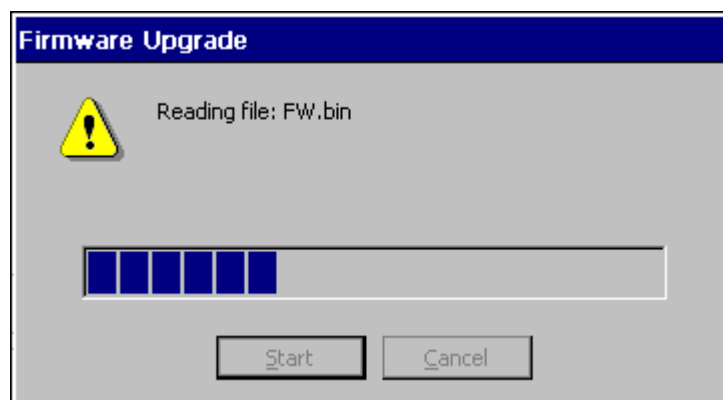
This is the first dialog box that displays. Read for information and click on **Start** to upgrade, or **Cancel** to quit the process.



Note

If you are downloading the same version of firmware that is already on the terminal, a dialog box displays reporting that you are downloading the same version.

Figure 35-3 Firmware Upgrade Dialog Box 2



Click on **Start** to begin the download. The process is:

- The image gets read.
- The flash gets erased.
- The image gets written to the flash.

When the upgrade is complete, the terminal will reboot to the **Connection Manager**.

**Note**

If the downloaded image is a lower version from what was on the terminal, the **Setup Wizard** will appear.

36 SNMP Firmware Upgrades

Using the SNMP Network Administration Dialog Box

The **SNMP Network Administration** dialog box contains the functions that you can use to administer to the terminals on your SNMP network. See Figure 36-1.

To invoke this dialog box:

1. Press the **F2** key to invoke the **Terminal Properties** dialog box.
2. Click on the **Apps** tab to invoke the **Apps** properties sheet.
3. Click on the **SNMP Network Administration** command button.

Figure 36-1 SNMP Network Administration Dialog Box

SNMP Network Administration

SNMP Communication

☒ Enable Authenticating Failure Trap

Community

Get:public

Set:WBTADMIN

Trap Destination

Server 1:

Server 2:

Server 3:

Server 4:

Terminal Information

Description

Location:

Contact:

Custom

Field 1:

Field 2:

Field 3:

OK

Cancel

The following table discusses the functions of this dialog box.

Table 36-1 **SNMP Network Administration Dialog Box**


| Function | Description |
|---------------------------|---|
| SNMP Communication | <p>Use this group box to set up SNMP communication using the following functions:</p> <p>Enable Authenticating Failure Trap Check this box to enable the authenticating failure trap.</p> <p>Community Use this group box to configure the network management of a community.</p> <p>Get This field takes the name of the community the SNMP management software will manage with read permission only. If this field is left blank, the community for that terminal will be public. The default for this field is Public.</p> <p>Set This field contains the name of the community the SNMP management software will manage with write permission. The default for this field is WBTADMIN.</p> <p> Note All Get and Set names are case sensitive.</p> <p>Trap Destination Server 1:, Server 2:, Server 3:, and Server 4: are fields that supply the names or IP addresses of the servers to which the terminal sends SNMP traps. (Optional)</p> |

Table 36-1 SNMP Network Administration Dialog Box, Continued

| Function | Description |
|-----------------------------|---|
| Terminal Information | <p>Use this group box to list information about terminals.</p> <p>Description Use this group box to describe a terminal. (Optional)</p> <p>Location Type the location of the terminal in this field.</p> <p>Contact Type the name of the administrator of the subject terminal in this field.</p> <p>Custom Use the following fields to type in any custom message associated with the subject terminal:</p> <ul style="list-style-type: none"> • Field 1 • Field 2 • Field 3 |

The Upgrade Process

1. Ensure that the custom MIB (Management Information Base) is compiled by your SNMP manager using the current MIB.

**Note**

In order to initiate an SNMP upgrade, you must know the FTP or TFTP server's IP address or machine name, and the absolute path to the image on the FTP or TFTP server.

**Note**

In the custom MIB the enterprise number is 1.3.6.1.4.1.714.

2. Ensure that the **SNMP Update Enable** check box in the **SNMP** area of the **Terminal Properties Apps** tab is checked (by default it is checked/enabled).

3. Using the **SNMP/Network Administrator** dialog box, verify that the community and set community names for the terminal match the community and set community names in the SNMP manager.

**Note**

You can set the **Set Community** name for a terminal if you have DHCP enabled by setting DHCP Option **164** to the set community name your SNMP manager uses.

4. Using your SNMP manager:
 - a. Go to 1.2.3.8.1.2 (wbt3UpDnLoadTable).
 - b. Go to 1.2.3.8.1.2.1.2 (wbt3UpDnLoadID), user defined string.

**Note**

The above is used in traps to identify the download operation.

- c. Go to 1.2.3.8.1.2.1.3 (wbt3UpDnLoadOp), and set its value to 1 (Download).
 - d. Go to 1.2.3.8.1.2.1.4 (wbt3UpDnLoadSrcFile), and set its value to the absolute path of the directory where the image file and params.ini are located.
 - e. Go to 1.2.3.8.1.2.1.6 (wbt3UpDnLoadFileType), and set its value to 0 (Binary).
 - f. Go to 1.2.3.8.1.2.1.7 (wbt3UpDnLoadProtocol), and set its value to 0 or 1 (FTP or TFTP).
 - g. Go to 1.2.3.8.1.2.1.8 (wbt3UpDnLoadFServer), and set its value to the IP address or DNS name of the FTP or TFTP server.
 - h. Go to 1.2.3.8.1.4 (wbt3SubmitLoadJob), and set its value to 1 (Ready).

Step 4h will initiate an SNMP upgrade to your terminal. If the download is configured properly, the new image will download and the terminal will reboot automatically.

Refer to Chapter 31, FTP Pull Firmware Upgrades, to view the dialog boxes that display during the process.

37 DHCP Firmware Upgrades

Using the Change DHCP Option IDs Dialog Box

Use the **Change DHCP Option IDs** dialog box to set up DHCP option IDs for terminal administration and upgrade. See Figure 37-1 for a view of this dialog box.

Your terminal uses DHCP and the information on the **Change DHCP Option IDs** dialog box to:

- Help establish ICA and RDP connections
- Perform automated firmware updates
- Help define terminal emulation connections
- Implement remote management of SNMP parameters

To invoke this dialog box:

1. Press the **F2** key.
2. Click on the **Apps** tab.
3. Click on the **Change DHCP Option...** command button.

Figure 37-1 Change DHCP Option IDs Dialog Box

Change DHCP Option IDs

Common Option IDs

Remote Server : 155

Logon User Name: 156

Domain: 157

Logon Password: 158

Command Line: 159

Working Directory: 160

FTP Option IDs

File Server: 161

File Root Path: 162

SNMP Option IDs

Trap Server IP List : 163

Set Community: 164

Terminal Emulation Option IDs

Emulation Mode : 166

Terminal ID: 167


RDP Option ID

Startup Application: 165

OK


Cancel

Reset To Defaults

 **Note**
Option 158 is not supported yet. It is reserved for future use.

The following table describes the functions of this dialog box.

Table 37-1 Change DHCP Option IDs Dialog Box

| Function | Description |
|--------------------------------------|---|
| Common Option IDs | <p>Group box used to assign DHCP option IDs to common DHCP variables. The number in each field is the DHCP option ID. The following field titles are the DHCP variables:</p> <ul style="list-style-type: none">• Remote Server• Logon User Name• Domain• Logon Password - reserved for future use• Command Line• Working Directory |
| RDP Option ID | <p>Group box used to set the following RDP option IDs:</p> <p>Startup Application</p> |
| FTP Option IDs | <p>Group box used to set the following FTP option IDs:</p> <ul style="list-style-type: none">• File Server• File Root Path |
| SNMP Option IDs | <p>Group box used to set the following SNMP option IDs:</p> <ul style="list-style-type: none">• Trap Server IP List• Set Community |
| Terminal Emulation Option IDs | <p>Group box used to set the following terminal emulation option IDs:</p> <ul style="list-style-type: none">• Emulation Mode• Terminal ID |
| Reset To Defaults | <p>Click on this command button to reset all option IDs to the default values.</p> <p> Note The values shown in Figure 37-1 are the terminal default values.</p> |

The Upgrade Process

1. Press the **F2** key for the **Terminal Properties** dialog box.
2. Click on the **Network** tab.
3. Click on the **Obtain an IP Address From DHCP Server** radio button, if the function is not enabled.
4. Click on the **Apps** tab.
5. Click on the **DHCP Automatic Update Enable** check box on the **Apps** properties sheet, if the function is not enabled.

**Note**

You have now enabled the automatic DHCP function.
You will also need to configure your DHCP option IDs.
Make sure your DHCP options match the options on the DHCP server.

6. If you want to change the DHCP option ID values, click on the **Change DHCP Option...** command button.
7. Use the **Change Option IDs** dialog box to change options, then click on **OK** to save.

**Note**

Pay special attention to these FTP Option IDs functions: **File Server** (the location of the server where the firmware resides), and **File Root Path** (the location of the firmware). If they are not correct, the upgrade will fail.

**Note**

You will need the image and the params.ini files on the FTP server to do the upgrade.

8. Shut down the terminal. See “Shutting Down the Terminal” for more information.
Your terminal will automatically upgrade itself when it is turned on again.

Manual DHCP Firmware Upgrades

1. Follow instruction 1 through 3 and 5 through 8 in “Automatic Firmware Upgrades.”
2. Click on the **Upgrade...** command button on the **Upgrade** properties sheet.

This will initiate the firmware upgrade. Once the upgrade is complete, the terminal will reboot to the **Setup Wizard**.

Client Security

- 43 Security Properties**
- 44 Terminal Accounts**
- 45 Creating Terminal Accounts**
- 46 Modifying and Deleting Terminal Accounts**
- 47 Terminal Login**
- 48 Failover**

38 Security Properties

Use the **Security** properties sheet to access security functions and global terminal functions. You can also use this sheet to set up terminal accounts. Figure 38-1 shows the **Security** properties sheet.

Using the Security Properties Sheet

To invoke the **Security** properties sheet:

1. Press **F2** to open the **Terminal Properties** dialog box.
2. Click on the **Security** tab.

Figure 38-1 Security Properties Sheet

Terminal Properties

General | Input | Display | Network | Printers | Web | Upgrade | **Security** | Apps | De

☐ Security Enable
☐ Hide Configure Tab
☐ FailOver Enable
☐ Multiple Connect
☐ PingBeforeConnect
☐ Verbose

☐ AutoLogin Enable
 User Name:
☐ Single Button Connect

☒ DHCP Connection Enable
 Connection Name and Type:
 Default ICA Connection {ICA}

☐ Auto Fail Recovery
☒ Reset HotKey Enable

User Accounts:

| Account Name | Privilege | AutoStart | AutoLogin |
|---------------|-----------|-----------|-----------|
| Administrator | Admin | No | No |

Add User...
 Modify User...
 Delete User...

OK Cancel Apply

The following table describes the functions of this properties sheet.


Table 38-1 Security Properties Sheet

| Function | Description |
|------------------------|--|
| Security Enable | <p>This group is used to enable terminal security and restrict access connection configurations. It contains the following functions:</p> <p>Security Enable Click to enable terminal security and deactivate the Hide Configure Tab function. It forces a user to log in if autologin is not enabled. By default this function is disabled. Checking this box disables the Hide Configure Tab check box. Typically, when enabled user accounts would be established (Add User command button). Become effective when terminal is restarted.</p> <p>Hide Configure Tab Click to enable. This function hides the Configure tab in the Connection Manager. By default this function is disabled.</p> |
| Failover Enable | <p>Use this group to manipulate connection parameters. See "Failover" for more information.</p> <p>Failover Enable Click to enable the failover function. Failover allows the unit to try the next connection in a list if a current connection attempt (ping) is unsuccessful. Enabling this function activates Multiple Connect and Verbose (see below) functions. By default this function is disabled.</p> <p>Multiple Connect Failover must be enabled before you can access this function. The unit will attempt a connection to all servers listed in the Connection Manager starting from where the first connection is launched.</p> <p>PingBeforeConnect When checked, the server is pinged before a connection is attempted to avoid losing time waiting for failure responses.</p> |

Table 38-1 Security Properties Sheet, Continued

| Function | Description |
|-------------------------------|--|
| AutoLogin Enable | <p>Verbose When selected, a Failover Log Window is displayed reporting details about the connection process.</p> |
| | <p>This group is used to configure automatic login parameters. See “Autologin and Autoconnect” for more information about autologin.</p> |
| | <p>AutoLogin Enable Select to enable the function. AutoLogin is enabled only for the user name currently highlighted in the User Name list box. Enabling the autologin function activates the Single Button Connect check box. By default the AutoLogin function is disabled.</p> |
| | <p>User Name This field is activated by enabling AutoLogin Enable. By default the field is blank.</p> |
| DHCP Connection Enable | <p>Single Button Connect Select to enable the function. See the “Single Button Connect” in “Terminal Login” for more information. By default the function is not enabled.</p> |
| | <p>Use this group to access the DHCP connection list. It contains the following functions:</p> |
| | <p>DHCP Connection Enable Select to enable automatic DHCP connection. Enabling this function activates the Connection Name and Type list. This function is enabled by default if DHCP is enabled (Network dialog box).</p> |
| | <p>Connection Name and Type A scroll list that displays all connections available to your terminal. You must select the connection that will use information supplied by DHCP. By default this function is Default ICA Connection {ICA}.</p> |

Table 38-1 Security Properties Sheet, Continued

| Function | Description |
|-----------------------------|--|
| Auto Fail Recovery | Select the check box to enable the function. Auto Fail Recovery is a function that checks the validity of a disconnect, and closes down a connection if the disconnect is valid. By default the function is not selected. It reconnects to a session when you log off or end an ICA or RDP session. If DHCP Connection Enable is checked (for ICA or RDP), you must have a server that can respond to ping commands set in the DHCP Server Options or it will not reconnect (per RDP- or ICA-assigned options) the user. |
| Reset Hot Key Enable | Check this box to enable hot key reset.  Note The hot key reset function must be performed as directed by the system administrator. |
| User Accounts | This is a list box displaying: Account Name Lists the account names. Privilege Lists the privilege type, either Admin , User , or Guest . AutoStart Lists the autostart permission, either Yes or No . Interacts with Connection Startup dialog box selection (see "Connection Configuration"). AutoLogin Lists the autologin permission, either Yes or No . For more information about user accounts see "Terminal Accounts." |
| Add User | See "Adding Terminal Accounts." |
| Modify User | See "Modifying and Deleting Terminal Accounts." |
| Delete User | See "Modifying and Deleting Terminal Accounts." |

39 Terminal Accounts

A terminal account is a group of connection and configuration parameters organized into an account and assigned to a terminal user. Terminal accounts can include specific connections, privileges, password protection, Autologin and/or Autostart and Single Button Connect functions. The three types of accounts are:

- **Guest**
- **User**
- **Administrator**

Guest Accounts

The **Guest** account has the fewest privileges. With this account you can not:

- Configure a connection unless enabled by the administrator
- Gain access to the password function or effect any changes to security

With this account type you can access the following **Terminal Properties** sheets:

- **General**
- **Input**
- **Display**
- **SysInfo**

User Accounts

With a **User** account, you will not be able to configure the connection for the account unless enabled by the administrator. You will be able to access the password function to change your password (if this privilege is granted). You can also access the following **Terminal Properties** sheets:

- **General**
- **Input**
- **Display**
- **Network**
- **Printers**
- **Apps**
- **Devices**
- **SysInfo**

Administrator Accounts

The **Administrator** account has the greatest amount of privileges. With this account you can:

- Use **Enable Password Change** (to permit users to change the passwords to their accounts)
- Add, modify, and delete accounts, and configure or reconfigure the connections for any account
- Use all the other functions of the terminal

Using Terminal Accounts

Terminal accounts are created and managed by using the **Add User...**, and **Modify User...** command buttons. Terminal accounts are deleted using the **Delete User...** command button. These buttons are found on the **Security** properties sheet.



Note

There is a built-in account called **Administrator**. It can not be deleted or revised. The account's password can be changed and is **<blank>** by default. For security purposes, it is recommended that the default administrator password be changed.

For more information about terminal accounts, see:

- “Security Properties”
- “Creating Terminal Accounts”
- “Modifying and Deleting Terminal Accounts”

40 Creating Terminal Accounts

The **Add User Account** dialog box is used to create terminal accounts. The following figure shows this dialog box.

Using the Add User Account Dialog Box

Use the **Add User Account** dialog box to set up the parameters for new terminal accounts. To invoke this dialog box:

1. Press **F2** while in the **Connection Manager**.
2. Click on the **Security** tab in the **Terminal Properties** dialog box.
3. Click on the **Add User...** command button.

Figure 40-1 Add User Account Dialog Box

Add User Account

☐ Enable Password Change

User Name:

Password:

Confirm Password:

Account Privilege

☐ Administrator

☐ User

☒ Guest

☐ Allow Access to Connection Manager

| Available Connections | Type |
|------------------------|------|
| Default ICA Connection | ICA |
| Default RDP Connection | RDP |

Assign >

Unassign <

Up >

Down >

Toggle AutoStart >

| Connection Name | Type | AutoStart |
|-----------------|------|-----------|
|-----------------|------|-----------|

OK

Cancel

The following table describes the functions of the **Add User Account** dialog box.

Table 40-1 Add User Account Dialog Box


| Function | Description |
|------------------------|---|
| Enable Password Change | <p>Group box used to set up password functions.</p> <div> Note The fields of this group box are limited to 20 characters or less.</div> <p>Enable Password Change Click to enable. Enabling the function will allow the user to change a password. This function is activated by assigning the User account privilege. By default Enable Password Change is deactivated.</p> <p>User Name Type in the new user name. By default the field is blank.</p> <p>Password Type in the password. By default the field is blank.</p> <p>Confirm Password Type in the password again. By default the field is blank.</p> |
| Available Connections | <p>This is a list box displaying all the terminal's connections. It contains:</p> <p>Available Connections This list shows the connections available for terminal accounts.</p> <p>Type This section of the list displays the connection type for each connection:</p> <ul style="list-style-type: none">• ICA• DialUp• RDP• TEC (terminal emulation)• Web |
| Assign | <p>Click on this command button to copy a connection from Available Connections to Connection Name. You must first select (highlight) the connection you want to copy.</p> |

Table 40-1 Add User Account Dialog Box, Continued


| Function | Description |
|--------------------------|--|
| Unassign | Use this button to remove a connection from Connection Name . You must first select the connection you want to remove. |
| Up and Down | Select a connection and click on the Up or Down command button to move it up or down one place in the Connection Name list. If there are no connections listed in Connection Name , the command buttons are deactivated. |
| Toggle AutoStart | Click on this command button to toggle between Yes and No . These two choices are listed under AutoStart in Connection Name . |
| Connection Name | <p>List box displaying connections.</p> <p> Note The first connection in the list is used by the Single Button Connect feature. Use the Up and Down buttons to rearrange the list.</p> <p>Connection Name This list shows the connections available to a terminal account.</p> <p>Type This section of the list displays the connection type of each connection. See Type above.</p> <p>AutoStart This section of the list displays whether the connection will or will not start automatically.</p> |
| Account Privilege | <p>Group box used to assign an account an account privilege:</p> <p>Administrator Click this radio button to assign the privileges of administrator to an account. If this function is enabled:</p> <ul style="list-style-type: none"> • All connections in Available Connections are automatically assigned to Connection Name for use. • Enable Password Change is deactivated but enabled. Administrators always have the ability to change passwords. |

Table 40-1 Add User Account Dialog Box, Continued

| Function | Description |
|---|--|
| | <p>User Click this radio button to assign the privilege of user to an account. If User is enabled, Enable Password Change is activated. Administrators can give users the ability to change their password.</p> <p>Guest (default) Click this radio button to assign the privilege of guest to an account. If Guest is enabled, then Enable Password Change is deactivated. Users with this account type can not change passwords.</p> |
| Allow Access to Connection Manager | Select this check box to allow a user account to have access to the Configure tab on the Connection Manager . By default the check box is not selected. The check box is disabled for an administrator account. |

41

Modifying and Deleting Terminal Accounts

The **Modify User Account** dialog box is used to modify and delete terminal accounts. The **Delete** command button, discussed later in Deleting Terminal Accounts, is used to delete terminal accounts. Figure 41-1 shows the **Modify User Account** dialog box.



Note

The account name for the account being modified shows in the dialog box title bar.

Using the Modify User Account Dialog Box

To invoke this dialog box:

1. Press **F2** from the **Connection Manager**.
2. Click on the **Security** tab in the **Terminal Properties** dialog box.
3. Highlight the account to be modified and click on the **Modify User...** command button.

Figure 41-1 Modify User Account Dialog Box

Modify User Account:

☐ Enable Password Change

User Name:

Password:

Confirm Password:

Account Privilege

☐ Administrator

☒ User

☐ Guest

☐ Allow Access to Connection Manager

| Available Connections | Type |
|------------------------|------|
| Default ICA Connection | ICA |
| Default RDP Connection | RDP |

Assign >

Unassign <

Up >

Down >

Toggle AutoStart >

| Connection Name | Type | AutoStart |
|-----------------|------|-----------|
|-----------------|------|-----------|

OK

Cancel

The following table describes the functions of the **Modify User Account** dialog box.

Table 41-1 Modify User Account Dialog Box



| Function | Description |
|------------------------|---|
| Enable Password Change | <p>Group box used to set up password functions.</p> <div> Note The fields of this group box are limited to 20 characters or less.</div> <p>Enable Password Change Click to enable. Enabling the function will allow the user to change the account's password. This function is activated by assigning the account User account privilege. By default Enable Password Change is deactivated.</p> <p>User Name Displays the user name. By default the text box is deactivated.</p> <p>Password Type in the password. By default the text box is blank.</p> <p>Confirm Password Type in the password again. By default the text box is blank.</p> |
| Available Connections | <p>This is a list box displaying all the terminal's connections. It contains:</p> <p>Available Connections This list shows the connections available for terminal accounts.</p> <p>Type This section of the list displays the connection type for each connection:</p> <ul style="list-style-type: none">• ICA• DialUp• RDP• TEC (terminal emulation)• Web |

Table 41-1 Modify User Account Dialog Box, Continued

| Function | Description |
|------------------|---|
| Assign | Click on this command button to copy a connection from Available Connections to Connection Name . You must first select to highlight the connection you want to copy. |
| Unassign | Use this button to delete a connection from Connection Name . You must first select to highlight the connection you want to delete. |
| Up and Down | Select a connection and click on the Up or Down command button to move it up or down one place in the Connection Name list. If there are no connections listed in Connection Name , the command buttons are deactivated. |
| Toggle AutoStart | Click on this command button to toggle between Yes and No . These two choices are listed under AutoStart in Connection Name . |
| Connection Name | List box displaying connections. <div> Note The first connection in the list is used by the Single Button Connect feature. Use the Up and Down buttons to rearrange the list.</div> |

Connection Name

This list shows the connections available to a terminal account.


Type

This section of the list displays the connection type of each connection. See **Type** above.

AutoStart

This section of the list displays whether the connection will or will not start automatically.

Table 41-1 Modify User Account Dialog Box, Continued

| Function | Description |
|---|--|
| |  Note Connection Name, Type and AutoStart comprise a list box. When the Modify User dialog box displays, what appears in this list box is the connection type in the last account that you created. |
| Account Privilege | <p>Group box used to assign an account account privileges:</p> <p>Administrator Click this radio button to assign the privileges of administrator to an account. If this function is enabled:</p> <ul style="list-style-type: none"> • All connections in Available Connections are automatically assigned to Connection Name for use. • Enable Password Change is deactivated but enabled. Administrators always have the ability to change passwords. <p>User Click this radio button to assign the privilege of user to an account. If User is enabled, Enable Password Change is activated. Administrators can give Users the ability to change their password.</p> <p>Guest Click this radio button to assign the privilege of guest to an account. If Guest is enabled, Enable Password Change is deactivated. Users with this account type can not change passwords.</p> |
| Allow Access to Connection Manager | Click on this check box to allow the user of the account to have access to the Connection Manager . The function will deactivate when you set up an account as an administrator account. By default the function is disabled. |

Deleting Terminal Accounts

Terminal accounts can be deleted from the **User Accounts** list on the **Security** properties sheet. To delete an account:

**Caution**

You can not recover a deleted account.

1. Click on the account that you want to delete in the **User Accounts** list.
2. Click on the **Delete User...** command button.

The following dialog box will display.

Figure 41-2 Delete User Account Confirmation Dialog Box



To delete the listed account, click on the **Yes** command button. The terminal account is removed from the database.

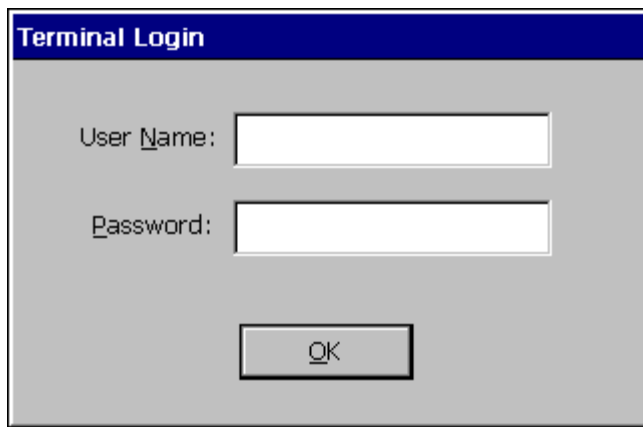
**Note**

You cannot delete the built-in **Administrator** account.

42 Terminal Login

Terminal login is used as a terminal security measure. Only users with the correct **User Name** and **Password** will be able to log into the terminal. Figure 42-1 shows the **Terminal Login** dialog box.

Figure 42-1 Terminal Login Dialog Box

The image shows a 'Terminal Login' dialog box. It has a blue title bar with the text 'Terminal Login'. The main area is light gray and contains two text input fields. The first field is labeled 'User Name:' and the second is labeled 'Password:'. Below these fields is a single button labeled 'OK'.

Logging Into the Terminal

To use the login feature:

1. Enable security. See “Security Properties” for more details.
2. Log out of the terminal by clicking on the **Shut Down...** command button in the **Connection Manager**.
3. Click on the **Logout** radio button in the **Shutdown Window** dialog box.
4. Click on the **OK** command button.

The **Terminal Login** dialog box displays. In this dialog box:

1. Type in the correct **User Name** and **Password**.
2. Click on **OK** to log into the terminal again.

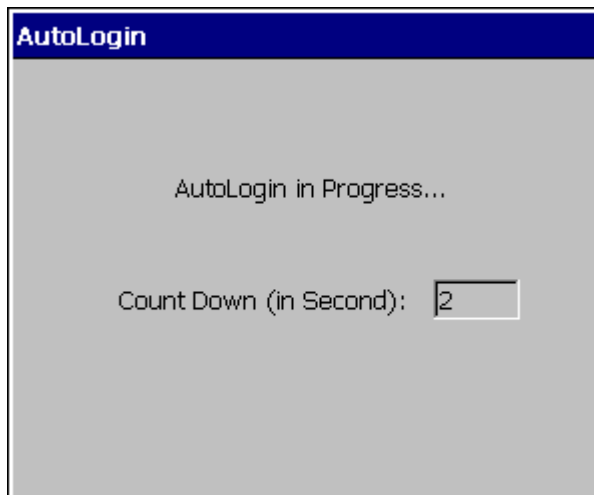
Autologin and Autoconnect

Autologin

The autologin feature is an automatic login function that does not use a dialog box as a prompt to log you into your terminal again. Whether you restart or log off, the **AutoLogin** dialog box displays, counts five seconds, then returns you to the **Connection Manager**.

This is a global function, so it does not matter what other functions you have enabled. Autologin is associated with an account and only one account can have autologin associated with it. It will always act in the same manner. The following figure shows the **AutoLogin** dialog box.

Figure 42-2 AutoLogin Dialog Box



AutoStart

AutoStart is a function that automatically connects you once you have logged into your terminal. Autostart can be added to any defined connection in any account. Each user can have different and/or multiple autostart connections. To use the function:

1. Enable security.
2. Select the account you want Autostart added to and click on the **Modify User...** command button.
3. Use the **Modify User** dialog box to add Autostart.
4. Restart or log off of your terminal.

The **Terminal Login** dialog box displays. Use it to log into your terminal. The **AutoStart** function will then automatically connect you to the connection that has autostart associated with it.

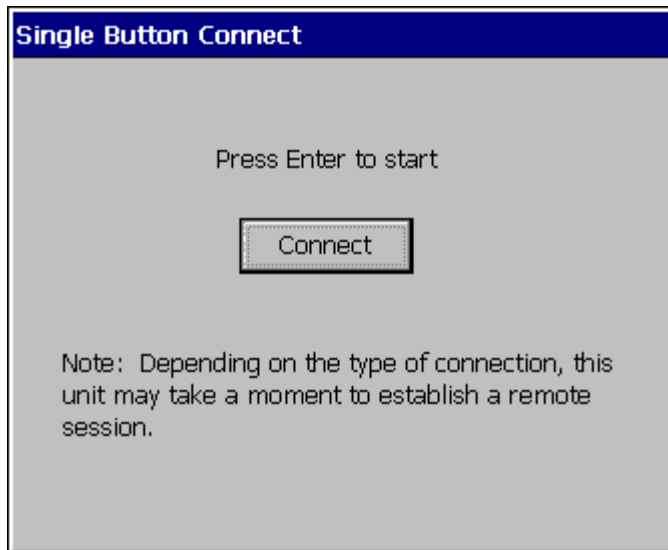
See “Shutting Down the Terminal” for more details about logging into the terminal.

Single Button Connect

The **Single Button Connect** feature is an automatic login function that uses a dialog box as a prompt to log you into your terminal again after logging out. Figure 42-3 shows this dialog box.

Single button connect is a global and automatic function, and is not included as a terminal account parameter. This function will:

1. Log you into your terminal using the account that has autologin associated with it.
2. Make the first connection listed in the **Connection Name** list in the **Modify User Account** dialog box (unless another connection in the list has been made with Autostart).

Figure 42-3 Single Button Connect Dialog Box

To enable this function:

1. Press **F2** to invoke the **Terminal Properties** dialog box.
2. Click on the **Security** tab to invoke the **Security** properties sheet.
3. Highlight the user's name in **User Accounts**.
4. Click on the **AutoLogin Enable** check box to enable the function.
5. Click on the **Single Button Connect** check box to enable the function.
6. Click on **OK**.
7. Click on the **Shut Down...** command button in the **Connection Manager**.
8. Click on the **Logout** radio button to log out of the terminal.

The **Single Button Connect** dialog box appears. Click on **Connect** to log into the terminal again.

43 Failover

Failover is a connection feature that is enabled using the **Security** properties sheet. It forces the terminal to “ping” the intended device before making a connection to it. The function operates when **FailOver Enable** is enabled on the **Security** properties sheet. Failover is global and wholly automatic to the terminal. It will work regardless of what connection you are trying to make, or what type of account under which you are logged in. See “Security Properties” for more information about this function and how to invoke the properties sheet.



Note

Ping (Packet Internet Groper) is a network utility. It tests communication with nodes in a network by sending packets to each selected node. Ping then waits to receive the echo response from that selected node.

Failover operates as follows:



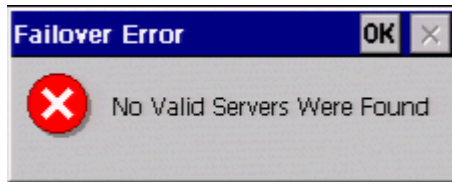
Note

Failover does not support PNLite connections.

1. The terminal pings the intended connection, to determine whether or not it is available.
2. If pinging the intended device fails, the terminal pings each successive connection in the list.
3. For each connection:
 - a. If ping is successful, the connection is made.
 - b. If ping is not successful, the terminal pings the next connection.
 - c. If the next connection is a serial or IE connection, ping will stop. Ping will not work on a serial or IE connection. Failover will not continue after encountering a serial or IE connection, but will launch the serial or IE connection if it is valid.

If failover pings all the connections in the list and a connection is not made, the function stops. The following error message displays.

Figure 43-1 Failover Message Box



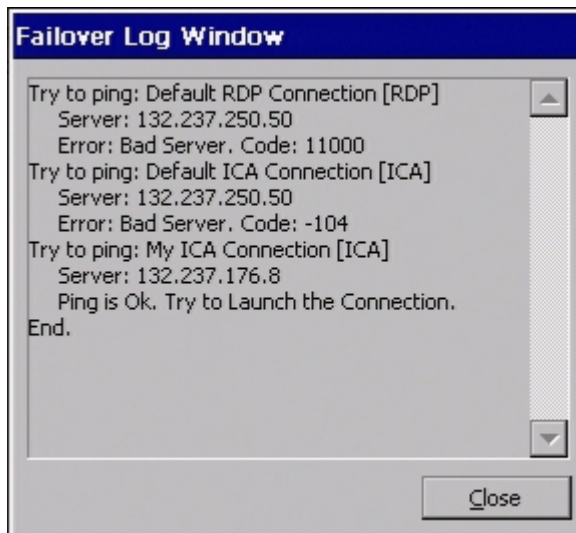
Once failover is finished, the **Failover Log Window** dialog box displays. Figure 43-2 shows this dialog box.



Note

The **Verbose** function on the **Security** properties sheet must be enabled for the **Failover Log Window** dialog box to display.

Figure 43-2 Failover Log Window Dialog Box



The **Failover Log Window** is a list of all the connections that were pinged. The list reports both successful and unsuccessful pings.

Getting Help

- 44 Windows-based Terminal Specifications**
- 45 How to...**
- 46 Terminal Port Pin Assignments**
- 47 Terminal Connector Pin Assignments**
- 48 Null Modem Cable Pin Assignments**
- 49 Modem AT Commands**

44 Windows-based Terminal Specifications

Specifications for the Windows-based terminals covered in this manual are listed in the following tables:

- Model T1000, Table 44-1
- Model T1010, Table 44-2

Table 44-1 Winterm Model T1000 Terminal Specifications

| Description | Specification |
|--|--|
| Terminal Type | Modular Windows-based terminal <ul style="list-style-type: none"> Integrated Microsoft RDP and Citrix ICA 3 protocols and terminal personalities (standard) |
| Display Support¹ | <ul style="list-style-type: none"> VESA monitor support, with DDC for automatic setting of resolution and refresh rate Indexed or true-color outputs for CRT Colors: 16, 256 (8-bit), or 65,536 (16-bit) Video: selectable up to 1280x1024 Flicker-free, selectable up to 85 Hz noninterlaced refresh rate |
| Audio¹ | <ul style="list-style-type: none"> Output: 1/8-in. mini, full 16-bit stereo, 44 KHz sample rate Input: 1/8-inch mini microphone (not currently supported)² |
| Input/Output/Peripheral Support | <ul style="list-style-type: none"> Keyboard: enhanced PS/2-type with Windows keys (104 keys) included³; low-profile design with two-position tilt; 5-ft (1.5-m) cable Mouse: PS/2-type mouse included Local and/or network printers on ICA (virtual port redirection ready) VGA-type video output (DB-15) |

Table 44-1 Winterm Model T1000 Terminal Specifications, Continued

| Description | Specification |
|--|---|
| Networking | <ul style="list-style-type: none"> • TCP/IP with DNS and DHCP • 10/100BaseT Fast Ethernet, twisted pair (RJ-45) • Point-to-Point Protocol (PPP) • Multiple master browser support on ICA • Supports Citrix load balancing on ICA • SNMP support allows configuration of terminal settings, reporting of terminal configuration and attached devices, traps • DHCP support for automatic firmware upgrades and unit configuration |
| Communications | <ul style="list-style-type: none"> • Two serial ports: 16C550 UART (fifo) compatible, up to 115.2 kBaud • One parallel port: bi-directional Centronics-compatible, DB-25 • PCMCIA card bus • ICA remote dial-up via internal (PCMCIA) or external modem • Two USB Ports⁴ |
| Communication Protocols/ Terminal Personalities Supported | <ul style="list-style-type: none"> • RDP resident • ICA 3 protocol resident • See Table 16-1 for emulations supported |
| Server OS Compatibility/ Support | <ul style="list-style-type: none"> • Microsoft Windows 2000 Server • Microsoft Windows NT Server 4.0, Terminal Server Edition • Citrix WinFrame • Citrix MetaFrame, the Citrix enhancement to Microsoft Windows NT Server 4.0, Terminal Server Edition • Citrix Device Services (included) |

Table 44-1 Winterm Model T1000 Terminal Specifications, Continued

| Description | Specification |
|---------------------------------|---|
| Setup and Configuration | User Interface <ul style="list-style-type: none"> • Local boot • Start-up wizard for simple set-up • See Table 3-1 for keyboard languages supported Configuration <ul style="list-style-type: none"> • Configurable automatic login • Individual user account customization (scripting) |
| Physical Characteristics | <ul style="list-style-type: none"> • Height: 8.9 in. (22.6 cm) • Width at base: 3.9 inches (9.9 cm) • Depth: 6.9 in. (17.4 cm) • Shipping weight: 12.5 lbs (5.5 kg) |
| Environment | Temperature range <ul style="list-style-type: none"> • Powered on: 32° to 104°F (10° to 40°C) • Powered off: –14° to 140°F (–10° to 60°C) • Convection cooling, fanless design Humidity <ul style="list-style-type: none"> • 20 to 80% noncondensing Operating altitude range <ul style="list-style-type: none"> • 0 to 10,000 ft (0 to 3,050 m) |
| Power | <ul style="list-style-type: none"> • Worldwide auto-sensing 90-264 V ac, 47-63 Hz • Energy-saving automatic power-down |

Table 44-1 Winterm Model T1000 Terminal Specifications, Continued

| Description | Specification |
|-----------------------|------------------------------|
| Regulatory Compliance | Ergonomics |
| | • German ZH1/618 |
| | • EN29241-3 approved |
| | • EPA Energy Star |
| | Safety |
| | • UL 1950, CSA 950 |
| | • TÜV-GS (EN60 950) approved |
| | RF Interference |
| | • FCC Class B |
| | • CE mark |
| | • EN55022B |
| | • VCCI |

Footnotes:

¹Monitor, speakers, and microphone not included.²Microphone will be supported in a future software release.³Keyboard not included with international models.⁴For supported peripherals, refer to <http://www.compaq.com>.**Warning**

Your Model T1000 terminal may contain a battery. There is a danger of explosion if the battery is incorrectly replaced. Replace the battery with only the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.

Table 44-2 Winterm Model T1010 Terminal Specifications

| Description | Specification |
|--|---|
| Terminal Type | Modular Windows-based Terminal <ul style="list-style-type: none"> • Integrated Microsoft RDP and Citrix ICA 3 protocols and terminal personalities (standard) |
| Display Support¹ | <ul style="list-style-type: none"> • VESA monitor support, with DDC for automatic setting of resolution and refresh rate • Colors: 16, 256 (8-bit), or 65,536 (16-bit) • Video: selectable up to 1280x1024 • Flicker-free, selectable up to 85 Hz noninterlaced refresh rate |
| Audio¹ | <ul style="list-style-type: none"> • Output: 1/8-in. mini, full 16-bit stereo, 44 KHz sample rate • Input: 1/8-in. mini microphone (not currently supported)² |
| Input/Output/Peripheral Support | <ul style="list-style-type: none"> • Keyboard: enhanced PS/2-type with Windows keys (104 keys) included³; low profile design with two-position tilt; 5-ft (1.5-m) cable • Mouse: PS/2-type mouse included • Local and/or network printers on ICA (virtual port redirection ready) • VGA-type video output (DB-15) |
| Networking | <ul style="list-style-type: none"> • TCP/IP with DNS and DHCP • 10/100BaseT Fast Ethernet, twisted pair (RJ-45) • Point-to-Point Protocol (PPP) • Multiple master browser support on ICA • Supports Citrix load balancing on ICA • SNMP support allows configuration of terminal settings, reporting of terminal configuration and attached devices, traps • DHCP support for automatic firmware upgrades and unit configuration |

Table 44-2 Winterm Model T1010 Terminal Specifications, Continued

| Description | Specification |
|---|--|
| Communications | <ul style="list-style-type: none"> Two serial ports: 16C550 UART (fifo) compatible, up to 115.2 kBaud One parallel port: bi-directional Centronics-compatible, DB-25 PCMCIA type II slot One USB port⁴ ICA remote dial-up via internal (PCMCIA) or external modem |
| Communication Protocols/ Terminal Emulations Supported | <ul style="list-style-type: none"> RDP resident ICA 3 protocol resident See Table 16-1 for emulations supported |
| Server OS Compatibility/ Support | <ul style="list-style-type: none"> Microsoft Windows 2000 Server Microsoft Windows NT Server 4.0, Terminal Server Edition Citrix WinFrame Citrix MetaFrame, the Citrix enhancement to Microsoft Windows NT Server 4.0, Terminal Server Edition Citrix Device Services (included) |
| Setup and Configuration | <p>User Interface</p> <ul style="list-style-type: none"> Local boot Start-up wizard for simple set-up See Table 3-1 for keyboard languages supported <p>Configuration</p> <ul style="list-style-type: none"> Configurable automatic login Individual user account customization (scripting) |
| Physical Characteristics | <ul style="list-style-type: none"> Height: 8.9 in. (226 mm) Width: 2.4 in. (60 mm) Depth: 6.9 in. (174 mm) Shipping weight: 12.5 lbs (5.5 kg) |

Table 44-2 Winterm Model T1010 Terminal Specifications, Continued

| Description | Specification |
|------------------------------|---|
| Environment | Temperature Range <ul style="list-style-type: none"> Powered on: 32° to 104°F (0° to 40°C) Powered off: –14° to 140°F (–10° to 60°C) Convection cooling, fanless design Humidity <ul style="list-style-type: none"> 20 to 80% noncondensing Operating Altitude Range <ul style="list-style-type: none"> 0 to 10,000 feet (0 to 3,050 meters) |
| Power | <ul style="list-style-type: none"> Worldwide auto-sensing 90-264 V ac, 47-63 Hz Energy-saving automatic power-down |
| Regulatory Compliance | Ergonomics <ul style="list-style-type: none"> German ZH1/618 EN29241-3 approved EPA Energy Star Safety <ul style="list-style-type: none"> UL 1950, CSA 950 TÜV-GS approved EN 60950 approved RF Interference <ul style="list-style-type: none"> FCC Class B CE mark EN55022B VCCI |

Footnotes:

¹Monitor or speakers and microphone not included.²Firmware to support this feature will be available in a future software release.³Keyboard not included with international models.⁴For supported peripherals, refer to <http://www.compaq.com>.

45 How to...

Turn off Autologin:

1. Press **F2** on your keyboard to invoke the **Terminal Properties** dialog box.
2. Click on the **Security** tab in the **Terminal Properties** dialog box.
3. Click (to uncheck) the **AutoLogin Enable** check box.
4. Click on the **OK** command button on the **Security** properties sheet to return to **Connection Manager**.

Check your terminal's build number and firmware revision:

1. Press **F2** on your keyboard to invoke the **Terminal Properties** dialog box.
2. Read the build number and firmware revision listed in **Version:** on the **General** properties sheet.
3. Click on any button on the **General** properties sheet to return to **Connection Manager**.

Adjust your mouse speed or change whether it is right- or left-handed:

1. Press **F2** on your keyboard to invoke the **Terminal Properties** dialog box.
2. Click on the **Input** tab in the **Terminal Properties** dialog box.
3. Click on the **Properties** command button in the **Mouse** group box on the **Input** properties sheet. This opens the **Mouse Properties** dialog box.

4. Use the **Button Configuration** radio buttons to select either **Right-handed** (default) or **Left-handed**.
5. Use the sliders in the **Pointer Acceleration** and **Pointer Speed** boxes to adjust your mouse speed.
6. Click on the **OK** command button on the **Mouse Properties** dialog box and click on **Close** on the **Terminal Properties** dialog box to return to **Connection Manager**.

Make a basic PPP connection:

1. Click on the **Configure** tab in the **Connection Manager** to invoke the **Configure** properties sheet.
2. Click on the **Add** command button on the **Configure** properties sheet to invoke the **New Connection** dialog box.
3. Select from the scroll list **Dial-Up Client**, then click **OK** to invoke the **Dial-Up Configuration Wizard**.
4. Set the minimum parameters for a dial up connection:
 - a. Enter a name for the connection in **Enter a Description for Dial-Up Connection:** text box in the first dialog box of the wizard.
 - b. Enter a telephone number in **Telephone Number** in the second dialog box of the wizard.
 - c. Select in the second dialog box of the wizard:
 - Serial Port** (modem type)
 - Use Country Code** and **Area Code** (if appropriate)
 - Appropriate **Local Settings** and **Dialing Patterns** in the **Dialing Properties** dialog box (invoked by the **Dialing Properties** command button)
 - Appropriate **Port Settings** and **Call Options** in the **Device Properties** dialog box (invoked by the **Configure** command button)
 - d. Select a connection from the **Select Connection Below to Launch After Dialing In** list box in the third dialog box of the wizard.
 - e. Click on the **Finish** command button to return to the **Connection Manager**.

The connection will display in the **Connections** list.

Switch between multiple sessions:

- Press **Ctrl+Alt+↑** to proceed to the previous session.
- Press **Ctrl+Alt+↓** to proceed to the next session.

Reset your terminal:

1. Press **F2** on your keyboard to invoke the **Terminal Properties** dialog box.
2. Click on (to check) the **Reset the Terminal to Factory Default Property Settings** check box.
3. Click on **Yes** in the **System Settings Change** dialog box.

The terminal is reset to factory defaults.

**Note**

If the above reset procedure fails, call technical support at Compaq (800-OKCOMPAQ) for instructions on using a hot-key reset procedure.

Determine the size of the onboard memory:

1. Press **F2** on your keyboard to invoke the **Terminal Properties** dialog box.
2. Read the firmware revision number listed in **RAM:** on the **General** properties sheet.
3. Click on the **Close** command button on the **General** properties sheet to return to **Connection Manager**.

Configure a local printer:

If you are using the WinFrame 1.7/ICA platform:

1. Log in to your WinFrame server.
2. Click on **Print Manager** in **Program Manager**.
3. Click on **Connect to Printer** on the **Printer** menu.
4. Click on **Client Network**, then **Client** on the **Shared Printer** menu.
5. Select your <clientname#port>, then click on **OK**.

**Note**

A **Use Printer Configuration Utility** check box is encountered in two places: **Connection Manager | Edit | Edit Connection Details | Options tab** and **Connection Manager | Add | Wizard** leading to **Printing, Compression, Cache, Encryption and Sound** dialog box. The box is checked by default. Uncheck the box if you desire to use the standard Windows printer setup. Also un-check the box for CDS printing.

If you are using the MetaFrame 1.0/ICA platform:

1. Log in to your MetaFrame server.
2. Click on **My Computer** in the **ICA Session** dialog box.
3. Click on **Printers**, then **Add Printer**.
4. Select **Network Printer Server**, then click **Next**.
5. Click on **Client Network**, then **Client** in the **Shared Printers** dialog box.
6. Select your <clientname#port>, then click on **OK**.
7. Click **Next**, then **Finish**.

If you are using a WinFrame 1.8 or MetaFrame 1.8/ICA platform:

1. Log in to your Citrix server.

2. If it is a MetaFrame server:
 - a. Click on **Start**, then **Programs**.
 - b. Click on **MetaFrame**, then **Tools**.
 - c. Click on **ICA Client Printer Configuration**.
3. If it is a WinFrame server:
 - a. Click on **ICA Client Printer Configuration** in the **Administrative Tools** program group in the **Program Manager**.
 - b. Click on **New** on the **Printer** menu to display the **Add ICA Client Printer** wizard.
 - c. Follow the steps of the wizard to add your local printer.

46 Terminal Port Pin Assignments

The following two figures show the pin assignments for the serial and parallel ports. These ports are located on the back panel of your terminal. See Terminal Installation for information about terminal back panels.

Figure 46-1 Serial Port

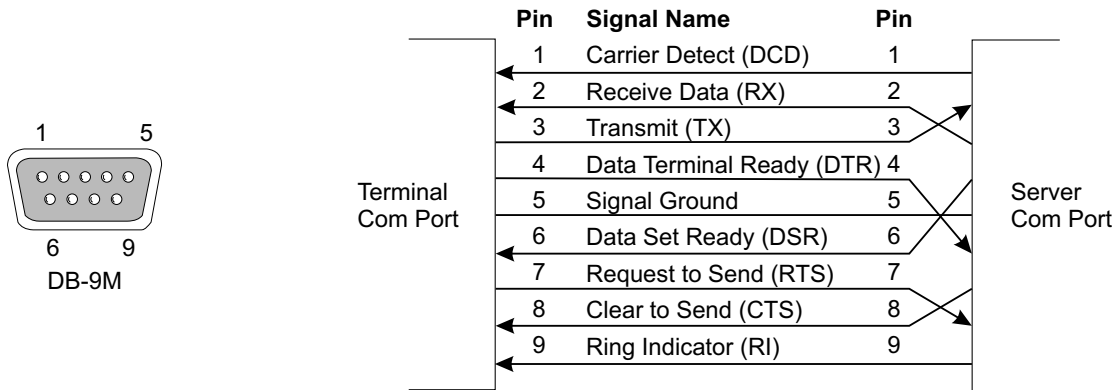
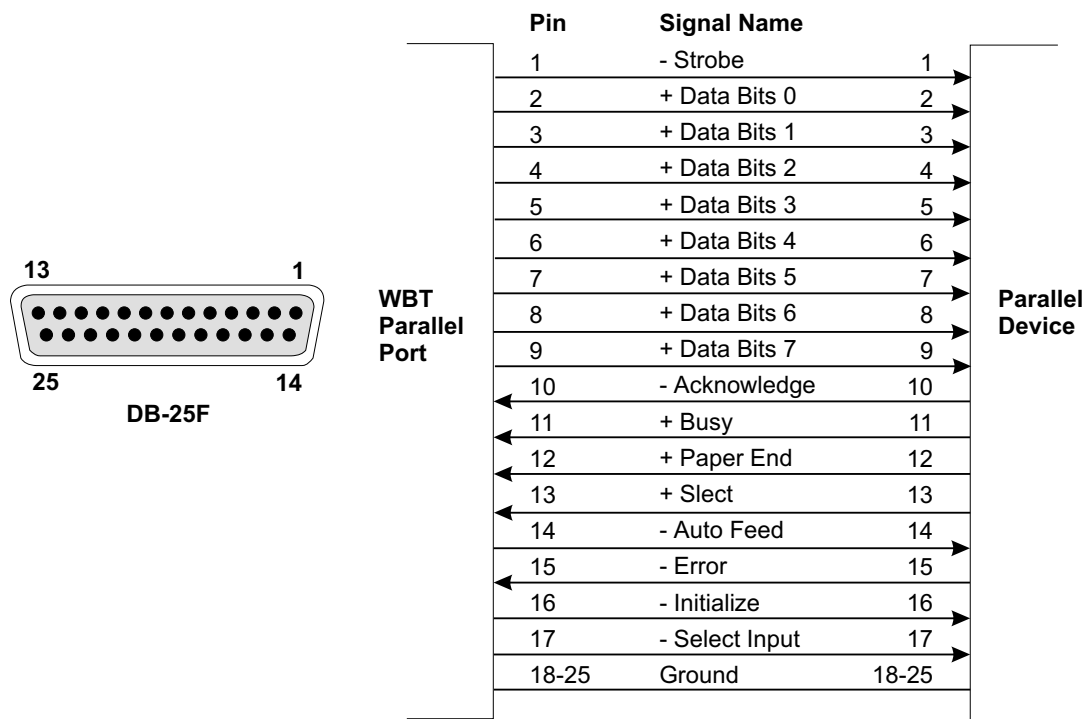



Figure 46-2 Parallel Port (EPP/SPP)



 **Note**
The pin assignments for Terminal Parallel Port above are Centronics-compatible. The pin assignments for Parallel Device above are the standard pin assignments for a parallel device.

47 Terminal Connector Pin Assignments

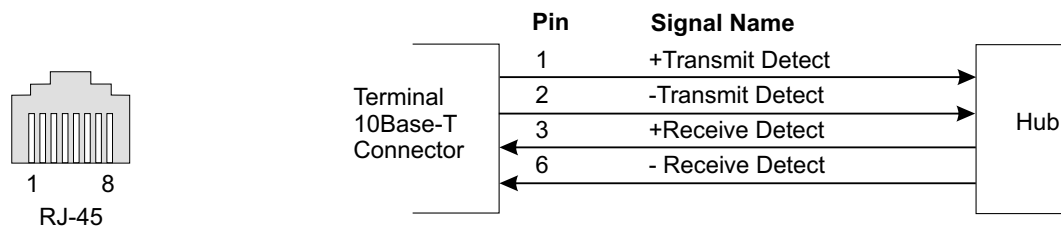
The following figure shows the pin assignments for the 10Base-T and 100Base-T connector. This connector is located on the back panel of your terminal. See “Terminal Features” for information about the back panel.



Note

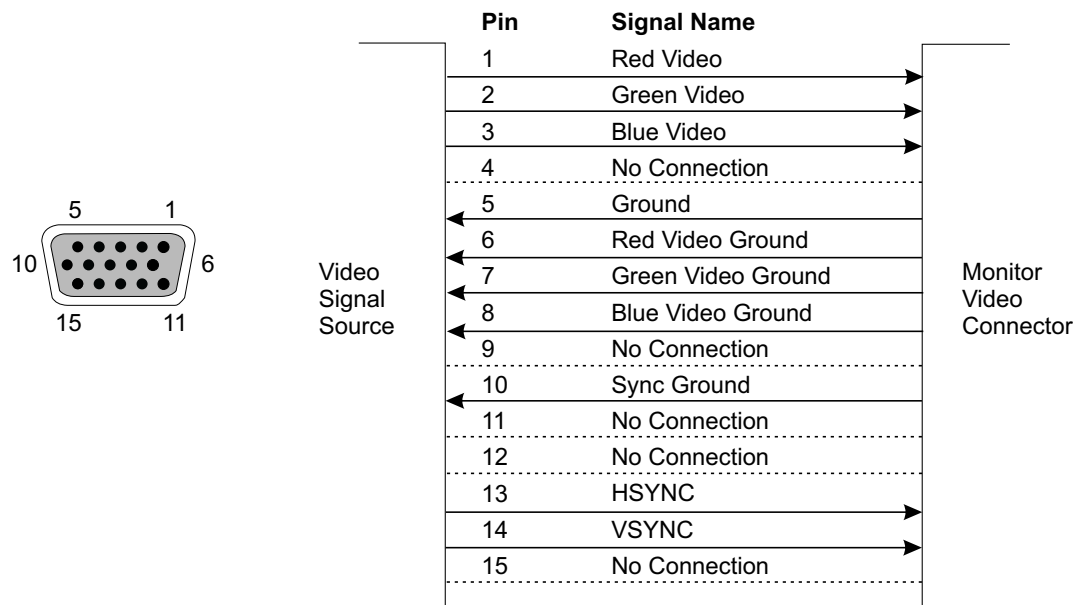
It is recommended that you use Category 5 twisted-pair cable to connect your terminal to a hub.

Figure 47-1 10Base-T and 100Base-T Connector



The following figure lists the connector pin assignments for the terminal’s VGA connector. This connector is located on the back panel of your terminal. See “Terminal Features” for information about the back panel.

Figure 47-2 VGA Connector



48 Null Modem Cable Pin Assignments

Table 48-1 outlines the pin assignments for a 9-pin serial port to a 25-pin serial port null modem cable.

Table 48-1 Null Modem Cable Pin Assignments

| 25 Pin | 9 Pin |
|---------------------------------------|---------------------------------------|
| 2 (transmit data) | 2 (receive data) |
| 3 (receive data) | 3 (transmit data) |
| 4 (request to send) | 8 (clear to send) |
| 5 (clear to send) | 7 (request to send) |
| 6, 8 (data set ready, carrier detect) | 4 (data terminal ready) |
| 7 (ground) | 5 (ground) |
| 20 (data terminal ready) | 6, 1 (data set ready, carrier detect) |



Note

All other pins on either connector of the cable are not used.

49 Modem AT Commands

The tables of this section list typical modem AT command sets.

Table 49-1 AT Commands with No Lead-in Character

| Command | Description |
|---------|--|
| B, B0 | ITU-T (CCITT) V.22 mode when at 1200 bps; V.21 at 300 bps |
| E1 | Enable character echo to terminal in command mode |
| H, H0 | Go on-hook (hang up) |
| N1 | Connection speed set to highest possible DCE rate, Automode |
| Q, Q0 | Modem returns result codes (Quiet disabled) |
| T | Tone dialing |
| V1 | Full-word result codes (Verbose enabled) |
| W2 | Negotiation progress codes disabled. Result code is DCE rate |
| X4 | Modem recognizes dialtone and busy, CONNECT nnnn result code enabled |
| Y, Y0 | Disable long-space disconnect |
| Z, Z0 | Reset modem and recall User Profile 0 |

Table 49-2 AT Commands Beginning with “&”

| Command | Description |
|---------|--|
| &B1 | Disable port rate adjust |
| &C1 | Carrier detect follows data carrier |
| &D2 | Hang up and go to command mode during On-to-Off DTR transition |
| &F, &F0 | Recall factory settings as active configuration |
| &M0 | Asynchronous mode |
| &N, &N0 | Microcom QX/4232hs-compatible numeric result codes displayed |
| &Q5 | Error Correction Mode V.42=> MNP=> Async |
| &T4 | Grant request from remote for remote digital loopback test |
| &U1 | Data compression enabled |
| &V | View active configuration, profiles (0,1), and numbers |
| &W, &W0 | Save active configuration as User Profile 0 |
| &Y, &Y0 | Recall User Profile 0 on power-up |

Table 49-3 AT Commands Beginning with “\”

| Command | Description |
|---------|--|
| \A3 | Maximum MNP block size = 256 characters |
| \G, \G0 | Disable port flow control DCE to DCE |
| \J, \J0 | Disable port rate adjust |
| \L, \L0 | MNP stream link |
| \N7 | Set Auto-reliable mode (LAPM with fallback to MNP, then to normal) |

Table 49-3 AT Commands Beginning with “\”, Continued

| Command | Description |
|---------|---|
| \Q3 | Bidirectional hardware flow control |
| \S | Display current Configuration, Long Version |
| \V, \V0 | Disable /REL connect codes |
| \X, \X0 | XON/XOFF pass-through disabled |

Table 49-4 AT Commands Beginning with “%”

| Command | Description |
|---------|---|
| %C1 | Data compression requested (V.42bis in LAPM, MNP5 in MNP) |
| %E, %E0 | Disable Auto-retrain |
| %L | Report Line Signal Level in -dBm |
| %Q | Report Line Signal Quality |
| %R | Display all S registers |
| %V | Display firmware version |

A

SNMP Remote Configuration Chart

The following chart is provided to help network administrators make remote configuration changes to WBTs in a managed network. These changes are made by physically writing to the managed devices using the logical objects listed in the MIB as reference. This chart lists:

- The lower-most subgroup the logical object belongs to
- The object's name
- What can be written to the object
- Where the UI is modified by the write




Note

For detailed information about each MIB group and its objects see the sections SNMP and DHCP Groups, Physical Devices Groups, and Network and Connections Groups in the network administrator's guide.

You can use the Remote Administrator or an SNMP management tool and the following chart to remotely affect changes to the terminals in your network.

| For the Logical Object... | You Can Write... | To Modify... |
|----------------------------|---|--|
| wbt3I/ODevice Group | | |
| wbt3kbLanguage | <p>Any of the following numbers:</p> <p> 0 = English-US 1 = English-UK 2 = French 3 = German 4 = Spanish 5 = Italian 6 = Swedish 7 = Danish 8 = Norwegian 9 = Dutch 10 = Belgian-French 11 = Finnish 12 = Swiss-French 13 = Swiss-German 14 = Japanese 15 = Canadian-French 16 = Belgian-Dutch 17 = Portuguese 18 = Brazilian-ABNT 19 = Italian-142 20 = Latin-American 21 = US-International 22 = Canadian-Fr-Multi 23 = Canadian-Eng-Multi 24 = Spanish-Variation </p> | The Locale scroll list on the Input properties sheet |
| wbt3CharacterRepeatDelay | <p>Any following number (in milliseconds):</p> <p> 250 500 750 1000 </p> | The Repeat Delay slide control on the Input properties sheet |
| wbt3CharacterRepeatRate | Any integer from 0 to 31 | The Repeat Rate slide control on the Input properties sheet |

| For the Logical Object... | You Can Write... | To Modify... |
|---|---|--|
| wbt3Display Group | | |
| wbt3EnergySaver | Any following number: 0 = none 1 = use a screen saver 2 = use monitor off | The Screen Saver and Turn Off Monitor radio buttons on the Display properties sheet |
| wbt3ScreenTimeOut | Any integer from 1 to 1440 | The Wait scroll list on the Display properties sheet |
| wbt3TouchScreen | Any following number: 0 = no touchscreen 1 = use Com1 2 = use Com2 | The Port scroll list in the MicroTouch Touchscreen Properties dialog box |
| wbt3DispCharacteristic Group | | |
| wbt3DispFreq  Note This can not be set if DDC is used. | Any following number (in Hz): 60 75 85 | The Desktop Area and Refresh Frequency scroll list on the Display properties sheet |
| wbt3DispHorizPix | Any following number (in pixels): 640 800 1024 1280 | The Desktop Area and Refresh Frequency scroll list on the Display properties sheet |
| wbt3DispVertPix | Any following number (in pixels): 480 600 768 1024 | The Desktop Area and Refresh Frequency scroll list on the Display properties sheet |

| For the Logical Object... | You Can Write... | To Modify... |
|--------------------------------|---|--|
| wbt3DispUseDDC | Any following number: 0 = do not use DDC 1 = use DDC | The Desktop Area and Refresh Frequency scroll list on the Display properties sheet |
| wbt3DHCPoptionIDs Group | | |
| RemoteServer | Any integer that corresponds to a DHCP option to change the default Option 155 to another option | The Remote Server field in the Change DHCP Option ID's dialog box |
| LogonUserName | Any integer that corresponds to a DHCP option to change the default Option 156 to another option | The Logon User Name field in the Change DHCP Option ID's dialog box |
| Domain | An integer that corresponds to a DHCP option to change the default Option 157 to another option | The Domain field in the Change DHCP Option ID's dialog box |
| Password | An integer that corresponds to a DHCP option to change the default Option 158 to another option | The Logon Password field in the Change DHCP Option ID's dialog box |
| CommandLine | An integer that corresponds to a DHCP option to change the default Option 159 to another option | The Command Line field in the Change DHCP Option ID's dialog box |
| WorkingDirectory | An integer that corresponds to a DHCP option to change the default Option 160 to another option | The Working Directory field in the Change DHCP Option ID's dialog box |

| For the Logical Object... | You Can Write... | To Modify... |
|---------------------------|--|---|
| FTPFileServer | An integer that corresponds to a DHCP option to change the default Option 161 to another option | The File Server field in the Change DHCP Option ID's dialog box |
| FTPRootPath | An integer that corresponds to a DHCP option to change the default Option 162 | The File Root Path field in the Change DHCP Option ID's dialog box |
| TrapServerList | An integer that corresponds to a DHCP option to change the default Option 163 to another option | The Trap Server IP List field in the Change DHCP Option ID's dialog box |
| SetCommunity | An integer that corresponds to a DHCP option to change the default Option 164 to another option | The Set Community field in the Change DHCP Option ID's dialog box |
| RDPStartupApp | An integer that corresponds to a DHCP option to change the default Option 165 to another option | The Startup Application field in the Change DHCP Option ID's dialog box |
| EmulationMode | An integer that corresponds to a DHCP option to change the default Option 166 to another option | The Emulation Mode field in the Change DHCP Option ID's dialog box |
| TerminalID | An integer that corresponds to a DHCP option to change the default Option 167 to another option | The Terminal ID field in the Change DHCP Option ID's dialog box |

| For the Logical Object... | You Can Write... | To Modify... |
|---------------------------------|--|---|
| VirtualPortServer | An integer that corresponds to a DHCP option to change the default Option 168 to another option | The Server field in the Change DHCP Option ID's dialog box |
| wbt3CustomFields Group | | |
| wbt3CustomField1 | Any alphanumeric character to a text string using a maximum of 60 characters | The Field 1: text box in the SNMP Network Administration dialog box |
| wbt3CustomField2 | Any alphanumeric character to a text string using a maximum of 60 characters | The Field 2: text box in the SNMP Network Administration dialog box |
| wbt3CustomField3 | Any alphanumeric character to a text string using a maximum of 60 characters | The Field 3: text box in the SNMP Network Administration dialog box |
| wbt3Administration Group | | |
| wbt3SNMPupdate | Any following integer: 0 = not checked 1 = checked | The SNMP Update Enable check box on the Apps properties sheet |
| wbt3DHCPupdate | Any following integer: 0 = not checked 1 = checked | The DHCP Automatic Update Enable check box on the Apps properties sheet |
| wbt3UpDnLoad Group | | |
| wbt3UpDnLoadNum | Any integer from 1 to 5 | This object does not correspond to any fields in the UI |
| wbt3AcceptReq | Any following integer: 0 = request not accepted 1 = request accepted | This object does not correspond to any fields in the UI |

| For the Logical Object... | You Can Write... | To Modify... |
|---------------------------|--|---|
| wbt3SubmitLoadJob | Any following integer: 0 = job not ready 1 = job ready | This object does not correspond to any fields in the UI |
| wbt3UpDnLoadIndex | Any integer from 0..UpDnLoadNum | This object does not correspond to any fields in the UI |
| wbt3UpDnLoadId | Any alphanumeric character to a text string | This object does not correspond to any fields in the UI |
| wbt3UpDnLoadOp | Any following integer: 0 = request upload 1 = request download | This object does not correspond to any fields in the UI |
| wbt3UpDnLoadSrcFile | Any alphanumeric character to a text string | This object does not correspond to any fields in the UI |
| wbt3UpDnLoadDstFile | Any alphanumeric character to a text string | This object does not correspond to any fields in the UI |
| wbt3UpDnLoadFileType | Any following integer: 0 = binary 1 = ASCII | This object does not correspond to any fields in the UI |
| wbt3UpDnLoadProtocol | Any following integer: 0 = FTP 1 = TFTP | This object does not correspond to any fields in the UI |
| wbt3UpDnLoadFServer | Any alphanumeric character to a text string | This object does not correspond to any fields in the UI |
| wbt3UpDnLoadTimeFlag | 0 = immediate execution | This object does not correspond to any fields in the UI |

| For the Logical Object... | You Can Write... | To Modify... |
|------------------------------|---|---|
| wbt3Action Group | | |
| wbt3RebootRequest | Any following integer: 0 = do not reboot 1 = reboot | This object does not correspond to any fields in the UI |
| wbt3ResetToFactoryDefault | Any following integer: 0 = not checked 1 = checked | The Reset the Terminal to Factory Default Property Settings check box on the General properties sheet |
| wbt3FTPSettings Group | | |
| wbt3ServerName | Any alphanumeric character to a text string | The Server Name text box on the Upgrade properties sheet |
| wbt3Directory | Any alphanumeric character to a text string | The Server Directory text box on the Upgrade properties sheet |
| wbt3UserID | Any alphanumeric character to a text string | The User ID text box on the Upgrade properties sheet |
| wbt3Password | Any alphanumeric character to a text string | The Password text box on the Upgrade properties sheet |
| wbt3SavePassword | Any following integer: 0 = unchecked 1 = checked | The Save Password check box on the Upgrade properties sheet |
| wbt3InfoLocation | Any alphanumeric character to a text string | The Status text box on the Upgrade properties sheet |
| wbt3Security Group | | |
| wbt3SecurityEnable | Any following integer: 0 = unchecked 1 = checked | The Security Enable check box on the Security properties sheet |

| For the Logical Object... | You Can Write... | To Modify... |
|---------------------------|--|--|
| wbt3HideConfigTab | Any following integer: 0 = unchecked 1 = checked | The Hide Configure Tab check box on the Security properties sheet |
| wbt3FailOverEnable | An integer, select: 0 = unchecked 1 = checked | The Failover Enable check box on the Security properties sheet |
| wbt3MultipleConnect | Any following integer: 0 = unchecked 1 = checked | The Multiple Connect check box on the Security properties sheet |
| wbt3PingBeforeConnect | Any following integer: 0 = unchecked 1 = checked | The Ping Before Connect check box on the Security properties sheet |
| wbt3Verbose | Any following integer: 0 = unchecked 1 = checked | The Verbose check box on the Security properties sheet |
| wbt3AutoLoginEnable | Any following integer: 0 = unchecked 1 = checked | The Autologin Enable check box on the Security properties sheet |
| wbt3AutoLoginUserName | Any alphanumeric character to a text string | The User Name scroll list on the Security properties sheet |
| wbt3SingleButtonConnect | Any following integer: 0 = unchecked 1 = checked | The Single Button Connect check box on the Security properties sheet |
| wbt3AutoFailRecovery | Any following integer: 0 = unchecked 1 = checked | The Auto Fail Recovery check box on the Security properties sheet |

| For the Logical Object... | You Can Write... | To Modify... |
|------------------------------|---|---|
| wbt3TrapServers Group | | |
| wbt3TrapServer1 | Any alphanumeric character to a text string using a maximum of 60 characters | The Server 1 text box in the SNMP Network Administration dialog box |
| wbt3TrapServer2 | Any alphanumeric character to a text string using a maximum of 60 characters | The Server 2 text box in the SNMP Network Administration dialog box |
| wbt3TrapServer3 | Any alphanumeric character to a text string using a maximum of 60 characters | The Server 3 text box in the SNMP Network Administration dialog box |
| wbt3TrapServer4 | Any alphanumeric character to a text string using a maximum of 60 characters | The Server 4 text box in the SNMP Network Administration dialog box |
| wbt3Network Group | | |
| wbt3dhcpEnable | Any following integer: 0 = unchecked 1 = checked | The Obtain an IP Address From a DHCP Server/Specify an IP Address radio buttons on the Network properties sheet |
| wbt3NetworkAddress | Any alphanumeric character to a text string | The IP Address text box on the Network properties sheet |
| wbt3SubnetMask | Any alphanumeric character to a text string using a maximum of 60 characters | The Subnet Mask text box on the Network properties sheet |
| wbt3Gateway | Any alphanumeric character to a text string using a maximum of 255 characters | The Gateway text box on the Network properties sheet |

| For the Logical Object... | You Can Write... | To Modify... |
|----------------------------------|--|--|
| wbt3dnsEnable | Any following integer: 0 = unchecked 1 = checked | The Enable DNS check box in the Advanced Network Settings dialog box |
| wbt3defaultDomain | Any alphanumeric character to a text string using a maximum of 255 characters | The Default Domain text box in the Advanced Network Settings dialog box |
| wbt3primaryDNSserverIPAddress | Any alphanumeric character to a text string using a maximum of 255 characters | The Primary Server IP Address text box in the Advanced Network Settings dialog box |
| wbt3secondaryDNSserverIPAddress | Any alphanumeric character to a text string using a maximum of 255 characters | The Secondary Server IP Address text box in the Advanced Network Settings dialog box |
| wbt3winsEnable | Any alphanumeric character to a text string using a maximum of 255 characters | The Enable WINS check box in the Advanced Network Settings dialog box |
| wbt3primaryWINSserverIPAddress | Any alphanumeric character to a text string using a maximum of 255 characters | The Primary Server IP Address (Enable WINS) text box in the Advanced Network Settings dialog box |
| wbt3secondaryWINSserverIPAddress | Any alphanumeric character to a text string using a maximum of 255 characters | The Secondary Server IP Address (Enable WINS) text box in the Advanced Network Settings dialog box |
| wbt3NetworkSpeed | Any following integer: 0 = Auto-detect 6 = 100Mbs-full duplex 7 = 100Mbs-half duplex 8 = 10Mbs-full duplex 9 = 10Mbs-half duplex | The Network Speed scroll list on the Network properties sheet |

| For the Logical Object... | You Can Write... | To Modify... |
|--------------------------------|---|---|
| wbt3Apps Group | | |
| wbt3RDPEncryption | Any following integer: 0 = checked 1 = unchecked | The RDP Encryption Enable check box on the Apps properties sheet |
| wbt3VirtualPortServerIPAddress | Any alphanumeric character to a text string using a maximum of 255 characters | The Virtual Port Server text box on the Apps properties sheet |
| wbt3com1Share | Any following integer: 0 = checked 1 = unchecked | The Com1 Enable check box on the Apps properties sheet |
| wbt3com2Share | Any following integer: 0 = checked 1 = unchecked | The Com2 Enable check box on the Apps properties sheet |
| wbt3parallelShare | Any following integer: 0 = checked 1 = unchecked | The LPT1 Enable check box on the Apps properties sheet |
| ICAStatusDialog | Any following integer: 0 = ctrl 1 = shift | The Status Dialog scroll list on the Hotkeys properties sheet |
| ICAStatusDialog2 | Any integer from 0..9 | The number scroll list to the right of the Status Dialog scroll list on the Hotkeys properties sheet |
| ICACloseRemoteApplication | Any following integer: 0 = ctrl 1 = shift | The Close Session scroll list on the Hotkeys properties sheet |
| ICACloseRemoteApplication2 | Any integer from 0..9 | The number scroll list to the right of the Close Sessions scroll list on the Hotkeys properties sheet |

| For the Logical Object... | You Can Write... | To Modify... |
|---------------------------|---|---|
| ICAtoggleTitleBar | Any following integer: 0 = ctrl 1 = shift | The Toggle Title Bar scroll list on the Hotkeys properties sheet |
| ICAtoggleTitleBar2 | Any integer from 0..9 | The number scroll list to the right of the Toggle Title Bar scroll list on the Hotkeys properties sheet |
| ICActrlAltDel | 0 = ctrl | The CTRL-ALT-DEL scroll list on the Hotkeys properties sheet |
| ICActrlAltDel2 | Any integer from 0..9 | The number scroll list to the right of the CTRL-ALT-DEL scroll list on the Hotkeys properties sheet |
| ICActrlEsc | 0 = ctrl | The CTRL-ESC scroll list on the Hotkeys properties sheet |
| ICActrlEsc2 | Any integer from 0..9 | The number scroll list to the right of the CTRL-ESC scroll list on the Hotkeys properties sheet |
| ICAaltEsc | Any following integer: 0 = ctrl 1 = shift | The ALT-ESC scroll list on the Hotkeys properties sheet |
| ICAaltEsc2 | Any integer from 0..9 | The number scroll list to the right of the ALT-ESC scroll list on the Hotkeys properties sheet |
| ICAaltTab | Any following integer: 0 = ctrl 1 = shift | The ALT-TAB scroll list on the Hotkeys properties sheet |

| For the Logical Object... | You Can Write... | To Modify... |
|------------------------------|--|--|
| ICAaltTab2 | Any integer from 0..9 | The number scroll list to the right of the ALT-TAB scroll list on the Hotkeys properties sheet |
| ICAaltBackTab | Any following integer: 0 = ctrl 1 = shift | The ALT-BACKTAB scroll list on the Hotkeys properties sheet |
| ICAaltBackTab2 | Any integer from 0..9 | The number scroll list to the right of the ALT-BACKTAB scroll list on the Hotkeys properties sheet |
| wbt3Connections Group | | |
| wbt3ConnectionName | Any alphanumeric character to a text string: RDP = 37 characters maximum ICA = 32 characters maximum TEC = 42 characters maximum DialUp = 20 characters maximum | The Connection Name list in the Winterm Connection Manager |
| wbt3ConnectionType | Any following integer: 0 = RDP 1 = ICA 2 = TEC 3 = DialUp | The Type list in the Winterm Connection Manager |
| wbt3ConnectionEntryStatus | Any following integer: 1 = active 2 = not in service 3 = not ready 4 = create and go 5 = create and wait 6 = destroy | The Connection Name list in the Winterm Connection Manager |

| For the Logical Object... | You Can Write... | To Modify... |
|----------------------------------|--|---|
| wbt3RDPCConnections Group | | |
| wbt3RDPCConnServer | Any alphanumeric character to a text string using a maximum of 32 characters | The Server text box in the WTS Connection Wizard (number 1) |
| wbt3RDPCConnLowSpeed | Any following integer: 0 = not checked 1 = checked | The Low Speed Connection check box in WTS Connection Wizard (number 1) |
| wbt3RDPCConnAutoLogon | Any following integer: 0 = not checked 1 = checked | The Automatic Logon check box in WTS Connection Wizard (number 2) |
| wbt3RDPCConnUserName | Any alphanumeric character to a text string using a maximum of 32 characters | The Username text box in WTS Connection Wizard (number 2) |
| wbt3RDPCConnDomain | Any alphanumeric character to a text string | The Domain text box in WTS Connection Wizard (number 2) |
| wbt3RDPCConnStartApplication | Any following integer: 0 = desktop 1 = file name | The Desktop/Application File Name radio buttons in WTS Connection Wizard (number 3) |
| wbt3RDPCConnFilename | Any alphanumeric character to a text string using a maximum of 32 characters | The Application File Name text box in WTS Connection Wizard (number 3) |
| wbt3RDPCConnWorkingDir | Any alphanumeric character to a text string using a maximum of 32 characters | The Working Directory text box in WTS Connection Wizard (number 3) |

| For the Logical Object... | You Can Write... | To Modify... |
|---------------------------|--|--|
| wbt3ICAConnCommType | The integer 0 = ctrl | The Network Connection/Dial-In Connection radio buttons in the Specify Connection Type dialog box |
| wbt3ICAConnServer | Any alphanumeric character to a text string | The Citrix Server/Published Application text box in the Select a Citrix Server or Published Application dialog box |
| wbt3ICAConnCommandLine | Any alphanumeric character to a text string | The Command Line text box in the Specify an Application dialog box |
| wbt3ICAConnWorkingDir | Any alphanumeric character to a text string | The Working Directory text box in the Specify an Application dialog box |
| wbt3ICAConnUsername | Any alphanumeric character to a text string | The Username text box in the Specify Logon Information dialog box |
| wbt3ICAConnDomain | Any alphanumeric character to a text string | The Domain text box in the Specify Logon Information dialog box |
| wbt3ICAConnColors | Any following integer: 0 = 16 1 = 256 | The Windows Colors radio buttons in the Select Window Options dialog box |
| wbt3ICAConnDataCompress | Any following integer: 0 = not checked 1 = checked | The Compress Data Stream check box in the Compression, Cache, Encryption and Sound dialog box |

| For the Logical Object... | You Can Write... | To Modify... |
|---------------------------|--|--|
| wbt3ICACConnSoundQuality | Any following integer: 0 = (none) 1 = low quality 2 = medium quality 3 = high quality | The Sound Quality scroll list in the Compression, Cache, Encryption and Sound dialog box |
| wbt3TermConnCommType | The integer 0 = network | The TCP/IP/Modem/Serial radio buttons in the TE Client Connection Wizard - Host Information dialog box |
| wbt3TermConnServer | Any alphanumeric character to a text string using a maximum of 32 characters | The Connection Name text box in the TE Client Connection Wizard - Connection Information dialog box |
| wbt3TermConnEmuType | Any following integer: 0 = VT52 1 = VT100 2 = VT220 3 = VT400-7-Bit 4 = VT400-8-Bit 5 = ANSI-BBS 6 = SCO Console 7 = IBM3270 8 = IBM3151 9 = IBM5250 10 = WY50 11 = WY50+ 12 = TV1910 13 = TV1920 14 = TV1925 15 = ADDS-A2 16 = HZ1500 17 = WY60 | The Emulation scroll list in the TE Client Connection Wizard - Connection Information dialog box |

| For the Logical Object... | You Can Write... | To Modify... |
|-----------------------------|--|---|
| wbt3TermConnVTEmuModel | 0 = VT100 1 = VT101 2 = VT102 3 = VT125 4 = VT220 5 = VT240 6 = VT320 7 = VT340 8 = VT420 9 = VT131 10 = VT132 256 = not applicable | The VT Terminal ID scroll list in the TE Client Connection Wizard - Connection Information dialog box |
| wbt3TermConnIBM3270EmuModel | 0 = IBM3278-2 1 = IBM3278-3 2 = IBM3278-4 3 = IBM3278-5 4 = IBM3278-2-E 5 = IBM3278-3-E 6 = IBM3278-4-E 7 = IBM3278-5-E 8 = IBM3279-2 9 = IBM3279-3 10 = IBM3279-4 11 = IBM3279-5 12 = IBM3287-1 256 = not applicable | The IBM 3270 Model scroll list in the TE Client Connection Wizard - Connection Information dialog box |
| wbt3TermConnIBM5250EmuModel | 0 = IBM5291-1 1 = IBM5292-2 2 = IBM5251-11 3 = IBM3179-2 4 = IBM3196-4 5 = IBM3180-2 6 = IBM3477-FC 7 = IBM3477-FG 8 = IBM3486-BA 9 = IBM3487-BA 10 = IBM3487-HC 11 = not applicable | The IBM 5250 Model scroll list in the TE Client Connection Wizard - Client Information dialog box |
| wbt3TermConnPortNumber | Any integer from 1 to 65535 | The Port Number text box in the TCP/IP Telnet Configuration dialog box |

| For the Logical Object... | You Can Write... | To Modify... |
|---------------------------|--|---|
| wbt3TermConnTelnetName | Any alphanumeric character to a text string | The Connection Name text box in the Connection Information dialog box |
| wbt3TermConnPrinterPort | The integer 0 = LPT1 | The Printer Port scroll list in the TE Client Connection Wizard - Printer Port Settings dialog box |
| wbt3TermConnFormFeed | Any following integer: 0 = not checked 1 = checked | The FormFeed Terminator check box in the TE Client Connection Wizard - Printer Port Settings dialog box |
| wbt3TermConnAutoLineFeed | Any following integer: 0 = not checked 1 = checked | The Auto Line Feed check box in the TE Client Connection Wizard - Printer Port Settings dialog box |
| wbt3TermConnScript | Any alphanumeric character to a text string | The Script text box in the TE Client Connection Wizard - Automate Login Process dialog box |
| wbt3Users Group | | |
| wbt3UsersStatus | Any following integer: 1 = active 2 = not in service 3 = not ready 4 = create and go 5 = create and wait 6 = destroy | This object does not correspond to any fields in the UI. |
| wbt3userName | Any alphanumeric character to a text string using a maximum of 20 characters | The User Name text box in the Add User Account and Modify User Account dialog boxes |

| For the Logical Object... | You Can Write... | To Modify... |
|---------------------------|---|--|
| wbt3password | Any alphanumeric character to a text string | The Password text box in the Add User Account and Modify User Account dialog boxes |
| wbt3privilege | Any following integer: 0 = admin 1 = user 2 = guest | The Administrator/User/Guest radio buttons in the Add User Account and Modify User Account dialog boxes |
| wbt3Connection1 | Any alphanumeric character to a text string using a maximum of 20 characters | The first connection listed in the Connection Name list in the Add User Account and Modify User Account dialog boxes |
| wbt3Connection2 | Any alphanumeric character to a text string using a maximum of 20 characters | The second connection listed in the Connection Name list in the Add User Account and Modify User Account dialog boxes |
| wbt3Connection3 | Any alphanumeric character to a text string using a maximum of 20 characters | The third connection listed in the Connection Name list in the Add User Account and Modify User Account dialog boxes |
| wbt3Connection4 | Any alphanumeric character to a text string using a maximum of 20 characters | The fourth connection listed in the Connection Name list in the Add User Account and Modify User Account dialog boxes |
| wbt3Connection5 | Any alphanumeric character to a text string using a maximum of 20 characters | The fifth connection listed in the Connection Name list in the Add User Account and Modify User Account dialog boxes |

| For the Logical Object... | You Can Write... | To Modify... |
|---------------------------|--|---|
| wbt3Connection6 | Any alphanumeric character to a text string using a maximum of 20 characters | The sixth connection listed in the Connection Name list in the Add User Account and Modify User Account dialog boxes |
| wbt3Connection7 | Any alphanumeric character to a text string using a maximum of 20 characters | The seventh connection listed in the Connection Name list in the Add User Account and Modify User Account dialog boxes |
| wbt3Connection8 | Any alphanumeric character to a text string using a maximum of 20 characters | The eighth connection listed in the Connection Name list in the Add User Account and Modify User Account dialog boxes |
| wbt3AutoStart1 | Any following integer: 0 = not checked 1 = checked | The first entry listed in the AutoStart list in the Add User Account and Modify User Account dialog boxes |
| wbt3AutoStart2 | Any following integer: 0 = not checked 1 = checked | The second entry listed in the AutoStart list in the Add User Account and Modify User Account dialog boxes |
| wbt3AutoStart3 | Any following integer: 0 = not checked 1 = checked | The third entry listed in the AutoStart list in the Add User Account and Modify User Account dialog boxes |
| wbt3AutoStart4 | Any following integer: 0 = not checked 1 = checked | The fourth entry listed in the AutoStart list in the Add User Account and Modify User Account dialog boxes |

| For the Logical Object... | You Can Write... | To Modify... |
|---------------------------|--|--|
| wbt3AutoStart5 | Any following integer: 0 = not checked 1 = checked | The fifth entry listed in the AutoStart list in the Add User Account and Modify User Account dialog boxes |
| wbt3AutoStart6 | Any following integer: 0 = not checked 1 = checked | The sixth entry listed in the AutoStart list in the Add User Account and Modify User Account dialog boxes |
| wbt3AutoStart7 | Any following integer: 0 = not checked 1 = checked | The seventh entry listed in the AutoStart list in the Add User Account and Modify User Account dialog boxes |
| wbt3AutoStart8 | Any following integer: 0 = not checked 1 = checked | The eighth entry listed in the AutoStart list in the Add User Account and Modify User Account dialog boxes |
| wbt3UserPasswordChange | Any following integer: 0 = not checked 1 = checked | The Enable Password Change check box in the Add User Account and Modify User Account dialog box. |

**Note**

This chart may not list all of the read-write objects in the MIB.

B NFuse Server Configuration Requirements

Introduction

Firmware version 3.5 introduces two new methods for accessing ICA published applications:

- Program neighborhood light (PNLite) (see “ICA Client Settings”)
- Browser based access, in which an NFuse server provides ICA links within a Web page to allow ICA sessions to be launched from within a browser window (see “Internet Explorer Connections”).

Both facilities rely on the Citrix NFuse capability set. Before the terminal can provide either of these services, NFuse must be installed and licensed on the Citrix server.

PNLite Access

When PNLite is initially configured on the server, the installer must designate a port to be used for telling clients about the published applications. Each client must have this port configured using the PNLite tab of the ICA global settings configuration (see “ICA Client Settings”). Once set up, all applications published through this mechanism on the designated server will appear as automatically configured connections in the **Connection Manager** window. The list of published applications/automatic connections is refreshed every time the terminal is rebooted.

Browser-Based Access

Publication of applications using a web page may be set up using the Citrix NFuse Web site wizard. There are two limitations in using this facility with the local browser installed on a T10x0 series model terminal.

1. The Citrix wizard will generate a page named default.htm that will cause a failure in the version of Internet Explorer included with Winterm software version 3.5. The generated page attempts to display a pop-up browser window. The Internet Explorer version on the terminal does not support this capability and the browser simply displays a blank page with a small red X in the upper left corner. There are several ways to avoid this problem:
 - Instruct users to reference the explicit URL `http://<servername>/login.htm`
 - Remove the page named default.htm and rename the page named login.htm to default.htm
 - Using the Internet Information Service (IIS) management facility, insert the page named login.htm into the list of default pages and then promote it to the first position in the list.

The individual site requirements will dictate which is the best choice.

2. An additional configuration requirement results from the fact that the Internet Explorer version on the terminal does not support Microsoft's ActiveX. If the server is configured to launch applications embedded within the browser window, the terminal's attempt to access these applications will fail. The Web site must be configured to launch applications in a separate window. This will result in running the ICA client code resident on the terminal to create the window for accessing the published application.

Glossary

The following glossary is a list of commonly used terms in this guide.

| Term | Definition |
|-----------|--|
| 10Base-T | One of several adaptations of the Ethernet (IEEE 802.3) standard for Local Area Networks (LANs). The 10Base-T standard (also called Twisted Pair Ethernet) uses a twisted-pair cable with a maximum length of 100 meters. The cable is thinner and more flexible than the coaxial cable used for the 10Base-2 or 10Base-5 standards. |
| 100Base-T | A networking standard that supports data transfer rates up to 100 Mbps (100 megabits per second). 100Base-T is based on the older Ethernet standard. Because it is 10 times faster than Ethernet, it is often referred to as Fast Ethernet. Officially, the 100Base-T standard is IEEE 802.3u. Like Ethernet, 100Base-T is based on the CSMA/CD LAN access method. |
| CHAP | Challenge-Handshake Authentication Protocol. An authentication scheme used by PPP servers to validate the identity of the originator of the connection upon connection or any time later. |
| CRT | Cathode-Ray Tube. A large vacuum tube with a viewing face in which an electron beam is focused and controlled to form characters and other images. A CRT is the display you see on the monitor you use with your terminal. |
| CTS | Clear to Send. Control signal sent from the DCE. It indicates that the DTE may send data. This signal is used in serial connections. |
| DCE | Data Communications Equipment. Devices that provide the functions required to establish, maintain, and terminate a data transmission connection, e.g., a modem. |


| | |
|----------|---|
| DHCP | <p>The Dynamic Host Configuration Protocol (DHCP) provides configuration parameters to Internet hosts. DHCP consists of two components: a protocol for delivering host-specific configuration parameters from a DHCP server to a host and a mechanism for allocation of network addresses to hosts.</p> <p>DHCP is built on a client-server model, where designated DHCP hosts allocate network addresses and deliver configuration parameters to dynamically configured hosts. The term "server" refers to a host providing initialization parameters through DHCP, and the term "client" refers to a host requesting initialization parameters from a DHCP server</p> |
| DNS | <p>Domain Name Service. A general-purpose distributed, replicated, data query service chiefly used on the Internet for translating host names into Internet addresses.</p> |
| Download | <p>To transfer data from a processing unit to an attached device. For example, from a host to the terminal.</p> |
| DSR | <p>Data Set Ready. A hardware signal sent by a communications device to indicate readiness to send and receive data. This signal is used in serial connections.</p> |
| DTE | <p>Data Terminal Equipment. A device that acts as the source and/or destination of data and which controls the communication channel. DTE includes terminals, computers, protocol converters, and multiplexors. DTE is usually connected via an RS-232 serial line to Data Communication Equipment (DCE).</p> |
| DTR | <p>Data Terminal Ready. A hardware signal sent by a terminal to indicate readiness to send and receive data. This signal is used in serial connections.</p> |
| Ethernet | <p>A baseband local area network specification developed jointly by Digital Equipment Corp., Xerox, and Intel to interconnect computer equipment using coaxial cable and transceivers. An Ethernet LAN provides millions of bits per second of capacity for high-speed terminal-to-computer communication or computer-to-computer file transfer.</p> |
| FCC | <p>Federal Communications Commission. The Government body that regulates all telecommunications originating in the U.S., including transmission over telephone lines.</p> |
| Firmware | <p>A computer program or software stored permanently in a PROM or ROM or semi-permanently in an EPROM.</p> |

| | |
|-------------------------|---|
| Flow control | The procedure for regulating the flow of data between two devices, flow control prevents the loss of data when one device's receiving buffer has reached its capacity. |
| FTP | File Transfer Protocol. FTP is a program for transferring files in TCP/IP environments such as the intranet in which a user, acting as a client, downloads files from a remote server. FTP is a core component in TCP/IP system administration and is implemented at the Applications layer with respect to the OSI protocol model. Its operation is based on the Telnet program and TCP. |
| GUI | Graphical User Interface (pronounced "gooey"). The use of pictures rather than just words to represent the input and output of a program. A program with a GUI runs under some windowing system (e.g. Microsoft Windows®). The program displays certain icons, buttons, and dialog boxes in its windows on the screen. The user mainly controls these objects by moving a pointer on the screen (typically controlled by a mouse) and selecting certain objects by pressing buttons on the mouse while the pointer is pointing at them. |
| Hz | Hertz. A unit of frequency equal to 1 cycle per second. |
| ICA | Independent Computing Architecture. A three-part server-based computing technology that separates an application's logic from its user interface and allows 100% application execution on the server. ICA was developed by Citrix Systems, Inc. |
| Integrated CRT terminal | A terminal with a monitor and connections on the back for a keyboard and mouse. |
| Interface | A shared boundary defined by common physical interconnection characteristics, signal characteristics, and meaning of interchanged signals. |
| Internet | The Internet is a global web of interconnected computers and computer networks that are interconnected under a common set of network protocols that allows them to function as a single large network (see TCP/IP). |

| | |
|-------------------------|--|
| IP address | <p>Internet Protocol Address. The 32-bit, 4-byte address assigned to machines with TCP/IP. Every machine that is on the Internet has a unique IP address. This facilitates interconnectivity among a variety of independent host systems.</p> <p>An IP address is usually represented in dotted decimal notation (called a dotted quad) consisting of 4 parts separated by dots, e.g.:</p> <p style="text-align: center;">165.113.245.2</p> <p>Most machines also have one or more <i>Domain Names</i> (see DNS) that are easier for people to remember.</p> |
| Intranet | A network of WBTs within a company or organization. |
| ISDN | Integrated Services Digital Network. Evolving switched network standard that provides end-to-end digital voice and data communication services. |
| kb or kilobit | 1,024 bits. Commonly referred to as 1 thousand bits. |
| kB or kilobyte | 1,024 bytes. Commonly referred to as 1 thousand bytes. |
| kbps or kb/s | Kilobits per second. An abbreviation meaning thousands of bits per second. |
| Load Balancing Services | A management add-on to Citrix WinFrame and MetaFrame servers that allows administrators to group multiple WinFrame and/or MetaFrame servers into scalable "server farms" to deliver the best application performance and server resource utilization. |
| Mb or megabit | 1,048,576 bits. Commonly referred to as 1 million bits. |
| MB | Megabytes |
| Mbps or Mb/s | Megabits per second. |
| MetaFrame | The world's first Server-based Computing software for Microsoft Windows NT 4.0 Server, Terminal Server Edition multi-user software. |
| MIB | Management Information Base. A database of managed objects accessed by network management protocols. |

| | |
|------------------|--|
| Modem | (Mo)dulator/(dem)odulator. Data communication equipment (DCE) devices that provide connections for computers into the public switched telephone network (PSTN). They convert (modulate) the digital signals of computers into analog signals that can be transmitted over telephone lines. A modem at the other end of the link then demodulates the signals back to digital bits. |
| Modular terminal | Desktop client that works with existing standard monitors. |
| Network | An interconnected group of nodes; a series of points, nodes, or stations connected by communications channels; the assembly of equipment through which connections are made between data stations. |
| Null modem | A cable, typically an RS-232 cable, for connecting serial ports on two computers directly, rather than via modems. Since, according to the specification, both computers should transmit on pin three of their RS-232 connectors and receive on pin two, a null modem cable needs to connect one computer's pin two to the other's pin three and vice versa. It also needs to have male connectors at both ends (again, according to the specification). |
| OSD | On Screen Display. A menu that displays on your monitor. |
| Packet | A group of bits (including data and call control signals) transmitted as an identifiable unit on a packet-switched network (PSN). |
| PAP | Password Authentication Protocol. An authentication scheme used by PPP servers to validate the identity of the originator of the connection. PAP applies a two-way handshaking procedure. After the link is established the originator sends an id-password pair to the server. If authentication succeeds the server sends back an acknowledgment; otherwise it either terminates the connection or gives the originator another chance. |
| Parallel port | An input/output port that allows the entire bit pattern for a single character to be sent at one time, usually used to connect a printer to a computer. |
| Parity check | The addition of non-information bits (specifically, parity bits) to make up a transmission block (a number of bits transmitted as unit) that ensures the total number of ones is always either even (even parity) or odd (odd parity). The parity check is used to detect transmission errors. |

| | |
|----------|---|
| PCMCIA | Personal Computer Miniature Connector Interface Adapter. Hardware and software standards for credit-card-sized integrated circuit cards. |
| Ping | Packet InterNet Groper. A protocol used in the Transmission Control Protocol (TCP) environment to test whether a node or remote device is communicating on a local area network (LAN) or wide area network (WAN). The protocol provides for transporting an echo response from a host system, a client, or a gateway. It is a useful tool for locating problems on the network related to failed connections and software problems. One datagram is sent every second over the network and any response is displayed. |
| PPP | Point-to-Point Protocol. A serial communication protocol that operates over dialup or leased (dedicated) lines to provide connections into IP networks. It sets up and monitors router sessions and frames the data transmitted over the line. |
| Protocol | A set of formal rules describing how to transmit data, especially across a network. Low-level protocols define the electrical and physical standards to be observed, bit- and byte-ordering, and the transmission and error detection and correction of the bit stream. High level protocols deal with the data formatting, including the syntax of messages, the terminal to computer dialogue, character sets, sequencing of messages, etc. |
| RAM | Random-Access Memory. A mass store that provides fast access to any storage location by means of vertical and horizontal coordinates. Information is written in or read out using the same procedure. The memory cycle time is the same for any location addressed because there is no waiting or sorting time required, as there is when data items are stored sequentially. |
| RAS | Remote Access Services. A service provided by Windows NT that allows most of the services which would be available on a network to be accessed over a modem link. The service includes support for dialup and logon, and then presents the same network interface as the normal network drivers (albeit slightly slower). |
| RDP | Remote Desktop Protocol. A presentation service protocol that governs input and output between a WBT and WTS (Windows Terminal Server). It is based on the T.share protocol. |

| | |
|----------------------|---|
| RS-232 cable | A cable for serial interfaces between the terminal and communications devices, such as a modem. The cable connects to the 9-pin serial port at the back of the terminal. Maximum cable length is 50 feet; maximum signaling rate is 20 Kbits/sec. |
| RTS/CTS flow control | Request to Send/Clear to Send flow control. Enables flow control on the local serial line. RTS is the output of the terminal; CTS is the input to the terminal. |
| Serial port | <p>A connector on a computer to which you can attach a serial line connected to peripherals that communicate using a serial (bit-stream) protocol. The most common type of serial port is a 25-pin D-type connector carrying RS-232 signals. Smaller connectors (e.g. 9-pin D-type) carrying a subset of RS-232 are often used on personal computers.</p> <p> Note Not all terminals have a serial port.</p> |
| Server | A computer, or a software package, that provides a specific kind of service (such as access to workstations, printers, and other parts of the network) to <i>client</i> software running on other computers. The term can refer to a particular piece of software, such as a <i>WWW</i> server, or to the machine on which the software is running. A single server machine could have several different server software packages running on it, thus providing many different services to <i>clients</i> on the <i>network</i> . |
| SNMP | Simple Network Management Protocol. The industry standard protocol for managing TCP/IP networks. This protocol queries agents in managed devices and passes information to the management console. |
| Start bit | In asynchronous transmission, the first bit of any given character used to alert the receiving system to recognize the related incoming data. |
| Stop bit | In asynchronous transmission, the last bit of any given character, used to alert the receiving system that transmission of the character is complete. |

| | |
|-------------------------------|--|
| TCP/IP | Transmission Control Protocol/Internet Protocol. A standard set of protocols that govern the basic workings of the Internet. It was developed by DARPA and implemented in 1982. TCP/IP encompasses both network layer and transport layer protocols (in the OSI model). While TCP and IP specify two protocols at specific protocol layers, TCP/IP is often used to refer to the entire DOD protocol suite based upon these, including Telnet, FTP, UDP and RDP. |
| Telnet | Telnet is the login and terminal emulation program for Transmission Control Protocol/Internet Protocol (TCP/IP) networks such as the Internet. Its primary function is to allow users to log into remote host systems. |
| Terminal emulation | Programs that allow a WBT to act like a particular brand or type of terminal. The WBT thus appears as a terminal to the host computer and accepts the same escape sequences for functions such as cursor positioning and clearing the screen. |
| Thin-client | A low-cost computing device that works in a server-centric computing model. Thin clients typically do not require state-of-the-art, powerful processors and large amounts of RAM and ROM because they access applications from a central server or network. Thin clients can operate in a Server-based Computing environment. |
| Timeout | A time interval within which certain operations must occur; for example, the time allotment for the terminal to connect to a login host. After the timeout, the process can either be repeated or discontinued. |
| Total Cost of Ownership (TCO) | A model that helps IT professionals understand and manage the budgeted (direct) and unbudgeted (indirect) costs incurred for acquiring, maintaining and using an application or a computing system. TCO normally includes training, upgrades, and administration as well as the purchase price. Lowering TCO through single-point control is a key benefit of Server-based Computing. |
| Touch screen | A type of display screen that has a touch-sensitive transparent panel that can sense when someone is touching it, and is able to furnish a computer with precise information as to exactly where on the screen the touch occurred. Touch screens are used with software that uses the information provided by the screen touch to respond to user requests. |

| | |
|--------------|--|
| USB | Universal Serial Bus. An external peripheral interface standard for communication between computer and external peripherals over an inexpensive cable using biserial transmission. USB works at 12 Mbps with specific consideration for low-cost peripherals. USB cables can be up to 5 meters long. |
| Virtual Port | Incoming Telnet and rlogin connections are not associated with a physical port. Instead, they are associated with a virtual port, port 0, which serves for the duration of the connection. Each virtual port is created with a default set of characteristics. The Define Port commands can be used to customize a virtual port during the Telnet/Rlogin session; however, these customizations can not be saved. The port reverts to the default set of characteristics when the session is closed. |
| WAN | Wide Area Network. A data-communications system covering a large geographic area, usually digital circuits having moderate to high data rates (e.g., 56 to 64 kbps up to 1.5 to 2 Mbps). |
| WBT | Windows-based Terminal. A thin-client device that connects to a Citrix WinFrame or MetaFrame server to provide application access. The key differentiation of a WBT from other type devices is that all the application execution occurs on the server. There is no downloading or local processing of applications at the client. |
| WinFrame | A multi-user Windows application server, based on Windows NT, developed under license from Microsoft. This application was developed by Citrix Systems, Inc. |
| WINS | Windows Internet Naming Service. WINS allows machines to dynamically register their name-to-address mappings. WINS is also a flat name space without the concept of hierarchy and requires each WINS server to maintain a complete database of entries through replication. |
| Winterm | Trademarked logo for Windows-based Terminals manufactured by Wyse Technology Inc. |
| WTS | Windows Terminal Server. A server application that transmits Windows user interface data via a network to a WBT. |
| X-ON/X-OFF | Transmitter On/Transmitter Off. Control characters used for flow control, instructing serial devices to start transmission (X-ON) and stop transmission (X-OFF). |

Index

Numerics

10Base-T 305

A

Add-on 155

Aironet 159

C

Category 5 twisted pair 273

Centronics-compatible 272

Com1

3360SE 5, 11

Com2

3360SE 5, 11

Command button

Port Lock 53

Command buttons

Accept xxvii

Add User 231, 234, 237

Add/Change Modem 161

Advanced (login options) 111

Apply xxvii

Back xxvii

Cancel xxvii

Change DHCP Option 53, 222

Configure 111

Default (Server) List 60

Delete User 231, 234, 248

Edit (connection parameters) 128, 140

Finish xxvii, 36, 41

ICA Client Settings 52, 57

Modify User 231, 234, 243

Next xxvii

OK xxvii

Restart (terminal) 42

Security 94

Shutdown (terminal) 249

SNMP Network 53

SNMP Network Administration 213

Startup (connection) 69

TCP/IP Settings 93

Upgrade 210, 223

X xxvii

Connection protocols

Citrix ICA Client 68

Dial-Up Client 68

Internet Explorer 68

Microsoft Remote Desktop Client 68

Terminal Emulation 68

Control keys

Alt+Backtab 57

Alt+Esc 57

Alt+Tab 57

Ctrl+Alt+Del 56

Ctrl+Alt+Down Arrow 267

Ctrl+Alt+Up Arrow 267

Ctrl+Esc 56

F2 17, 39, 43, 47, 51, 56, 147, 152, 155,
159, 165, 173, 175, 187, 189

D

Date/Time 173

Dialog boxes

Adapters Configuration 151

Add or Change Modem 161

Add Server Address 74

Add User Account 237

Automate Login Process 112

Change DHCP Option IDs 219

Change Option IDs 222

Compression, Cache, Encryption and
Sound 77

Connection Information 108

Connection Startup 69

Desktop Area and Refresh Frequency 23

Device Properties 87

Dialing Properties 87

Download Utility 203

Edit Connection 139

ELO Touchscreen 165

Failover Log Window 254

Firmware Upgrade 203

Index 316

- Global ICA Settings 55
- Host Information 111
- ISDN Settings 163
- Microtouch Touchscreen Properties 167
- Modify User Account 243
- New Connection 67, 71, 81, 101, 107, 125
- Optional Information 19
- Port Settings 91
- Printer Port Settings 113
- RACORE - Token Ring Adapter Settings 187
- Security Settings 94
- Select a Server or Published Application 73
- Select a Title for the ICA Connection 75
- Select Window Options 77
- Server Location 73
- SNMP Network Administration 213
- SNTP Client Settings 189
- Specify an Application 75
- Specify an IP Address 19
- Specify Connection Type 71
- Specify Logon Information 76
- TCP/IP Settings 93
- TCP/IP Telnet Configuration 117
- Terminal Login 249
- Terminal Properties 17, 39, 43, 47, 51, 55–56, 147, 152, 155, 159, 165, 173, 175, 187, 189
- Terminal Settings Change 36, 41
- Welcome 18
- Winterm Connection Manager 17, 67, 81
- DOS functions
 - dir 202
 - xfer.exe 201
- F**
- Firmware download
 - cable method 201
 - parallel download 201
- Function
 - Dial-Up Client 81
 - Internet Explorer 125
 - Microsoft Remote Desktop Client 101
 - Terminal Emulation 107
- Functions
 - 16 Megabits/Second 188
 - 4 Megabits/Second 188
 - Accept Any Authentication Including Clear Text 95
 - Accept Only Encrypted Authentication 95
 - Accept Only Microsoft Encrypted Authentication 95
 - Account Name 231
 - Adapters 149, 152
 - Add (command button) 60
 - Add/Change Modem 149
 - Add-on 149
 - Address of Proxy to Use 62, 78
 - Advanced Network 46
 - Aironet 149
 - Allow Access to Connection Manager 241, 247
 - Allow Automatic Updates 59
 - Application to Run 143
 - Assign (connection) 239, 246
 - Auto Fail Recovery 231
 - AutoLogin 231
 - AutoLogin Enable 230
 - Autologin Enable 252
 - Automatic Logon 141
 - Automatically Start the Selected Connection at Startup 70
 - AutoStart 231
 - Available Connections 239, 245
 - Baud Rate 168
 - Button 171
 - Cable Connection 166
 - Calibrate 166
 - Call Options 91
 - Call Setup 92
 - Client Name 59
 - Close Remote Application 56
 - Common Option IDs 221
 - Community 215
 - Connect Via SOCKS Proxy 62, 78
 - Connection 141, 168
 - Connection Name 240, 246

- Connection Name and Type 230
- Connection Preferences 91
- Connection Speed 141
- Controller Type 168
- Cursor Offset 169
- Custom 216
- Date/Time 149
- Default Gateway 153
- Default Windows Colors 58
- Delete (connection) 60
- Desktop 171
- DHCP Automatic Update Enable 53, 222
- DHCP Connection Enable 230
- Dial-In Connection 71
- Dialing Patterns 90
- Disable Call Waiting By Dialing 89
- Drawing 171
- ELO Touch 149
- Enable Authenticating Failure Trap 215
- Enable DNS 21, 46
- Enable Password Change 234, 239, 245
- Enable WINS 21, 46
- Extra Settings 92
- Failover Enable 229, 253
- Find Touchscreen 168
- Firmware Version 168
- Flow Hardware 162
- Flow Off 162
- Flow Settings 162
- Flow Software 162
- FTP Option IDs 221
- Get (field) 215
- Global Settings 52
- Hide Configure Tab 229
- Horizontal Edge Adjust 169
- Information 168
- Init Commands 162
- IP Address 153
- ISDN Settings 149, 163
- JETCET PRINT Pro 149
- Local Area Code 89
- Local Country Code 89
- Local Settings 89
- Logout 252
- LPD 149
- Make the Selected Connection Your
Default Connection 70
- Manual Dial 91
- Modem Name 162, 164
- Multilink PPP 164
- Multiple Connect 229
- Network Connection 71
- Network Speed 45
- No, I will Enter Static IP Information 19
- Obtain an Address from a DHCP
Server 45
- Obtain an IP Address From DHCP
Server 222
- Obtain an IP Address via DHCP 153
- Parameters 112
- Ping Before Connect 229
- Port 62, 78, 168
- Port Settings 91
- Primary DNS 154
- Primary ISDN Parameters 164
- Primary WINS 154
- Privilege 231
- Properties 152
- Protocol 164
- Pulse Dialing 89
- RACORE-TR 150
- RDP Encryption Enable 53
- RDP Option IDs 221
- Rename Group 61
- Reset Hot Key Enable 231
- Reset the Terminal to Factory-Default
Property Settings 17
- Reset To Defaults 221
- Respond With 113
- Secondary DNS 154
- Secondary WINS 154
- Security Enable 229
- Server Group 61
- Service Profile ID 1 164
- Service Profile ID 2 164
- Set (field) 215
- Set Initiation String 112
- Single Button Connect 230
- SNMP Communication 215
- SNMP Option IDs 221

Index 318

- SNMP Update Enable 53
- SNTP Client 150
- SOCKS 62
- Specify an IP Address 45, 153
- Stabilize Cursor 170
- Startup Options 69
- Status 168
- Status Dialog 56
- Subnet 153
- Switch Type 164
- Terminal Emulation Option IDs 221
- Terminal Name 45
- Toggle AutoConn 240, 246
- Toggle Title Bar 56
- Token Ring Speed 188
- Tone Dialing 89
- Touch Mode 171
- Touchscreen 150
- Unassign (connection) 240, 246
- Use Alternate Address Through
 - Firewalls 62, 78
- Use Assigned IP Address 94
- Use Default Gateway on Remote
 - Network 94
- Use FTP Information From DHCP
 - Server 209
- Use IP Header Compression 94
- Use Local FTP Information 209
- Use Server-Assigned Addresses 94
- Use SLIP 94
- Use Software Compression 94
- Use Terminal Window After Dialing 91
- Use Terminal Window Before Dialing 91
- User Accounts 231
- User Defined MAC Address 188
- User Name 230, 249
- Verbose (connection) 230
- Vertical 169
- Volume 150
- Wait For 112
- Wait for Credit Card Tone 92
- Wait for Dial Tone Before Dialing 92
- WaveLAN 150
- Yes, Use the IP Information Supplied by
 - DHCP 19

H

- Headphone jack
 - 3360SE 5, 11
- How to
 - Adjust your mouse 265
 - Check your terminal's revision of
 - software 265
 - Configure a local printer 268
 - Determine the terminal's memory
 - size 267
 - Make a basic PPP connection 266
 - Reset your terminal 267
 - Switch between multiple sessions 267
 - Turn off Autologin 265

I

- ICA 219
- Image file 217

K

- Keyboard connector
 - 3360SE 5, 11

M

- Management Information Base 216
- MIB 216
- Microphone jack
 - 3360SE 5, 11
- Mouse connector
 - 3360SE 5, 11

N

- Network connector
 - 3360SE 5, 11
- Null modem cable 275

O

- Option slot
 - 3360SE 5, 11

P

- Parallel port
 - 3360SE 5, 11
- Params.ini 217
- Pin assignments
 - 10Base-T and 100Base-T
 - connectors 273
 - null modem cable 275
 - serial and parallel ports 271
 - VGA connector 274
- Power connector
 - 3360SE 5, 11
- PPP 81
- Properties
 - Date/Time 173
- Properties sheets
 - Application 142
 - Apps 39, 51, 55, 213
 - Calibrate 172
 - Call Options 92
 - Configure 67, 69, 128, 140
 - Cursor 169
 - Default Hotkeys 56
 - Devices 39, 147, 152, 155, 159, 173, 175, 187, 189
 - Display 39
 - Firewall Settings 61
 - General 17, 39
 - Input 39
 - IP Address 152
 - Name Server 152
 - Net Connections 141
 - Network 39, 43
 - PNLite 63
 - Preferences 57
 - Printers 39
 - Security 39, 227, 248, 252–253

- Server Location 59
- SysInfo 39
- Touch Settings 171
- Upgrade 39, 207, 210
- Web 39

R

- RDP 219
- RDP encryption 51
- Reset, hot key 17, 231

T

- Terminal accounts
 - Administrator 234, 240, 247–248
 - Guest 233, 241, 247
 - User 234, 241, 247

V

- Video connector
 - 3360SE 5, 11

W

- WBT xxv
- Windows-based terminals
 - 3200LE xxv
 - 3350SE xxv
 - 3360SE xxv
 - 3720SE xxv
 - 3730LE xxv
- Wizards
 - Dial-Up Configuration 81, 87, 93
 - Setup 8, 14, 17, 41, 203, 223
 - WTS Connection 101

**T1000/T1010 Series Windows®-based Terminal Administrators Guide
Software Version 3.5**

Written and published by:
Compaq Computer Corporation, February 2001

Created using FrameMaker®, Acrobat®, and Magellan™

List of Figures

| | | |
|-------|--|----|
| 1-1 | T1000 Terminal Back Panel Connectors | 4 |
| 1-2 | T1000 Freestanding Desktop Mounting | 7 |
| 1-3 | T1000 Power Button | 8 |
| 2-1 | T1010 Terminal Back Panel Connectors | 10 |
| 2-2 | T1010 Freestanding Desktop Mounting | 13 |
| 2-3 | T1010 Power Button | 14 |
| 3-1 | Welcome/Countdown Dialog Box | 18 |
| 3-2 | IP Address Dialog Box | 19 |
| 3-3 | Specify an IP Address Dialog Box | 20 |
| 3-4 | Optional Information Dialog Box | 21 |
| 3-5 | Desktop and Keyboard Settings Dialog Box | 22 |
| 3-6 | Browser Setup Dialog Box | 25 |
| 3-7 | Browser URLs Dialog Box | 26 |
| 3-8 | Preferences Dialog Box | 27 |
| 3-9 | History and Favorites Dialog Box | 28 |
| 3-10 | Proxy Server Dialog Box | 29 |
| 3-11 | Local Printer Setup Dialog Box | 30 |
| 3-12 | Select Printer Port Dialog Box | 31 |
| 3-13 | Select Printer Model Dialog Box | 32 |
| 3-14 | Printer Name Dialog Box | 33 |
| 3-15 | Default Printer Dialog Box | 34 |
| 3-16 | Configure Another Printer Dialog Box | 35 |
| 3-17 | Finish Dialog Box | 36 |
| 3-18 | Terminal Settings Change Dialog Box | 37 |
| 4-1 | Terminal Properties Dialog Box | 40 |
| 4-2 | System Settings Change Dialog Box | 41 |
| 4-3 | Terminal Settings Change Dialog Box | 42 |
| 5-1 | Network Properties Sheet | 44 |
| 6-1 | Web Properties Sheet | 48 |
| 6-2 | Preferences Dialog Box | 50 |
| 6-3 | Proxy Information Dialog Box | 50 |
| 7-1 | Apps Properties Sheet | 52 |
| 8-1 | Default Hotkeys Properties Sheet | 55 |
| 8-2 | Preferences Properties Sheet | 57 |
| 8-3 | Server Location Properties Sheet | 60 |
| 8-4 | Firewall Settings Properties Sheet | 61 |
| 8-5 | PNLite Properties Sheet | 63 |
| 9-1 | New Connection Dialog Box | 67 |
| 9-2 | Connection Startup Dialog Box | 69 |
| 10-1 | Specify Connection Type Dialog Box | 72 |
| 10-2 | Citrix Search Message | 72 |
| 10-3 | Select a Citrix Server or Published Application Dialog Box | 73 |
| 10-4 | Server Location Dialog Box | 74 |
| 10-5 | Add Server Address Dialog Box | 74 |
| 10-6 | Select a Title for the ICA Connection Dialog Box | 75 |
| 10-7 | Specify an Application Dialog Box | 75 |
| 10-8 | Specify Logon Information Dialog Box | 76 |
| 10-9 | Select Window Options Dialog Box | 76 |
| 10-10 | Compression, Encryption and Sound Dialog Box | 77 |
| 10-11 | Firewall Settings Dialog Box | 78 |
| 10-12 | Dial-In Devices Dialog Box | 79 |
| 11-1 | Dial-Up Configuration Wizard 1 | 82 |

| | | |
|------|--|-----|
| 11-2 | Dial-Up Configuration Wizard 2 | 83 |
| 11-3 | Dial-Up Configuration Wizard 3 | 85 |
| 12-1 | Dialing Properties Dialog Box | 88 |
| 12-2 | Device Properties Dialog Box | 90 |
| 12-3 | Call Options Properties Sheet | 92 |
| 13-1 | TCP/IP Settings Dialog Box | 93 |
| 13-2 | Security Settings Dialog Box | 95 |
| 14-1 | Script Name Dialog Box | 98 |
| 14-2 | New Script Name Dialog Box | 98 |
| 14-3 | RAS Script Dialog Box | 99 |
| 14-4 | Edit Script Line Dialog Box | 100 |
| 15-1 | WTS Connection Wizard 1 | 102 |
| 15-2 | WTS Connection Wizard 2 | 103 |
| 15-3 | WTS Connection Wizard 3 | 104 |
| 15-4 | WTS Connection Wizard 4 | 105 |
| 16-1 | TE Client Connection Wizard - Connection Information | 108 |
| 16-2 | International Settings Dialog Box | 110 |
| 16-3 | TE Client Connection Wizard - Host Information | 111 |
| 16-4 | TE Client Connection Wizard - Automate Login Process | 112 |
| 16-5 | TE Client Connection Wizard - Printer Port Settings | 113 |
| 16-6 | TE Client Connection Wizard - GUI Overrides | 114 |
| 17-1 | TCP/IP Telnet Configuration Dialog Box | 117 |
| 17-2 | Modem Settings Dialog Box | 121 |
| 17-3 | Configuration of Serial Cable on Com1 (or Com2) Dialog Box | 122 |
| 18-1 | Internet Explorer Setup Dialog Box | 126 |
| 19-1 | Edit Connection Details Dialog Box | 127 |
| 19-2 | Application Properties Sheet | 130 |
| 19-3 | Logon Properties Sheet | 131 |
| 19-4 | Window Properties Sheet | 132 |
| 19-5 | Options Properties Sheet | 134 |
| 19-6 | Title Properties Sheet | 136 |
| 19-7 | Firewall Settings Properties Sheet | 137 |
| 20-1 | Edit Connection Dialog Box | 140 |
| 20-2 | Application Properties Sheet | 142 |
| 21-1 | Devices Properties Sheet | 148 |
| 22-1 | Adapters Configuration Dialog Box | 151 |
| 22-2 | IP Address Properties Sheet | 153 |
| 22-3 | Name Servers Properties Sheet | 154 |
| 23-1 | Uninstall Dialog Box | 156 |
| 23-2 | System Dialog Box | 157 |
| 24-1 | Aironet Wireless LAN Adapter Setup Dialog Box | 159 |
| 25-1 | Add or Change Modem Dialog Box | 161 |
| 25-2 | ISDN Settings Dialog Box | 163 |
| 26-1 | ELO Touchscreen Dialog Box | 165 |
| 26-2 | Microtouch Touchscreen Properties Dialog Box | 167 |
| 26-3 | Cursor Properties Sheet | 169 |
| 26-4 | Touch Settings Properties Sheet | 171 |
| 26-5 | Calibrate Properties Sheet | 172 |
| 27-1 | Date/Time Properties Dialog Box | 173 |
| 28-1 | JETCET PRINT Professional Dialog Box | 175 |
| 28-2 | Printer Properties Dialog Box, Color Tab | 177 |
| 28-3 | Printer Properties Dialog Box, Dithering Tab | 178 |
| 28-4 | Printer Properties Dialog Box, Toner Saver Tab | 178 |
| 28-5 | Printer Properties Dialog Box, Layout Tab | 179 |

| | | |
|------|---|-----|
| 29-1 | LPD Config Dialog Box | 181 |
| 29-2 | Printers Properties Sheet | 183 |
| 29-3 | Printer Properties Dialog Box | 185 |
| 30-1 | RACORE - Token Ring Adapter Settings Dialog Box | 188 |
| 31-1 | SNTP Client Dialog Box | 189 |
| 32-1 | WaveLAN/IEEE Settings Dialog Box | 192 |
| 32-2 | Advanced Properties Sheet | 193 |
| 32-3 | Power Management Properties Sheet | 195 |
| 32-4 | Encryption Properties Sheet | 196 |
| 33-1 | Volume Properties Dialog Box | 197 |
| 34-1 | Download Utility Dialog Box | 203 |
| 34-2 | Parallel Download Cable Connectors | 205 |
| 35-1 | Upgrade Properties Sheet | 208 |
| 35-2 | Firmware Upgrade Dialog Box 1 | 211 |
| 35-3 | Firmware Upgrade Dialog Box 2 | 211 |
| 36-1 | SNMP Network Administration Dialog Box | 214 |
| 37-1 | Change DHCP Option IDs Dialog Box | 220 |
| 38-1 | Security Properties Sheet | 228 |
| 40-1 | Add User Account Dialog Box | 238 |
| 41-1 | Modify User Account Dialog Box | 244 |
| 41-2 | Delete User Account Confirmation Dialog Box | 248 |
| 42-1 | Terminal Login Dialog Box | 249 |
| 42-2 | Autologin Dialog Box | 250 |
| 42-3 | Single Button Connect Dialog Box | 252 |
| 43-1 | Failover Message Box | 254 |
| 43-2 | Failover Log Window Dialog Box | 254 |
| 46-1 | Serial Port | 271 |
| 46-2 | Parallel Port (EPP/SPP) | 272 |
| 47-1 | 10Base-T and 100Base-T Connector | 273 |
| 47-2 | VGA Connector | 274 |

List of Tables

Glossary

Index

- 1 Text Format Conventions *xxvi*
- 2 User Interface Menu Control *xxvii*
- 1-1 T1000 Terminal Back Panel Connectors 5
- 2-1 T1010 Terminal Back Panel Connectors 11
- 3-1 Desktop and Keyboard Settings Dialog Box 23
- 5-1 Network Properties Sheet 45
- 6-1 Web Properties Sheet 49
- 7-1 Apps Properties Sheet 52
- 8-1 Default Hotkeys Properties Sheet 56
- 8-2 Preferences Properties Sheet 58
- 8-3 Server Location Properties Sheet 60
- 8-4 Firewall Settings Properties Sheet 62
- 8-5 PNLite Properties Sheet 64
- 9-1 New Connection Dialog Box 68
- 9-2 Connection Startup Dialog Box 70
- 12-1 Dialing Properties Dialog Box 89
- 12-2 Port Settings Properties Sheet 91
- 12-3 Call Options Properties Sheet 92
- 13-1 TCP/IP Settings Dialog Box 94
- 13-2 Security Settings Dialog Box 95
- 14-1 RAS Script Dialog Box 99
- 16-1 Terminal Emulation and Terminal Type 109
- 17-1 TCP/IP Telnet Configuration 118
- 17-2 Modem Settings Dialog Box 121
- 17-3 Configuration of Serial Cable on Com1 (or Com2) Dialog Box 123
- 19-1 Server Properties Sheet 128
- 19-2 Application Properties Sheet 130
- 19-3 Logon Properties Sheet 131
- 19-4 Window Properties Sheet 133
- 19-5 Options Properties Sheet 134
- 19-6 Firewall Settings Properties Sheet 137
- 20-1 Net Connections Properties Sheet 141
- 20-2 Application Properties Sheet 143
- 21-1 Devices Properties Sheet 149
- 22-1 Adapters Configuration Dialog Box 152
- 22-2 IP Address Properties Sheet 153
- 22-3 Name Server Properties Sheet 154
- 25-1 Add or Change Modem Dialog Box 162
- 25-2 ISDN Settings Dialog Box 164
- 26-1 ELO Touchscreen Dialog Box 166

| | | |
|------|---|-----|
| 26-2 | Hardware Properties Sheet | 168 |
| 26-3 | Cursor Properties Sheet | 169 |
| 26-4 | Touch Settings Properties Sheet | 171 |
| 28-1 | JETCET PRINT Professional Dialog Box Settings | 176 |
| 29-1 | LPD Config Dialog Box | 182 |
| 29-2 | Printers Properties Sheet | 184 |
| 30-1 | RACORE - Token Ring Adapter Settings | 188 |
| 31-1 | SNTP Client Settings | 190 |
| 32-1 | Basic Properties Sheet | 192 |
| 32-2 | Advanced Properties Sheet | 193 |
| 32-3 | Power Management Properties Sheet | 195 |
| 32-4 | Encryption Properties Sheet | 196 |
| 33-1 | Volume Properties Dialog Box | 198 |
| 34-1 | Parallel Download Cable Pinouts | 204 |
| 35-1 | Upgrade Properties Sheet | 209 |
| 36-1 | SNMP Network Administration Dialog Box | 215 |
| 37-1 | Change DHCP Option IDs Dialog Box | 221 |
| 38-1 | Security Properties Sheet | 229 |
| 40-1 | Add User Account Dialog Box | 239 |
| 41-1 | Modify User Account Dialog Box | 245 |
| 44-1 | Winterm Model T1000 Terminal Specifications | 258 |
| 44-2 | Winterm Model T1010 Terminal Specifications | 262 |
| 48-1 | Null Modem Cable Pin Assignments | 275 |
| 49-1 | AT Commands with No Lead-in Character | 277 |
| 49-2 | AT Commands Beginning with "&" | 278 |
| 49-3 | AT Commands Beginning with "\" | 278 |
| 49-4 | AT Commands Beginning with "%" | 279 |